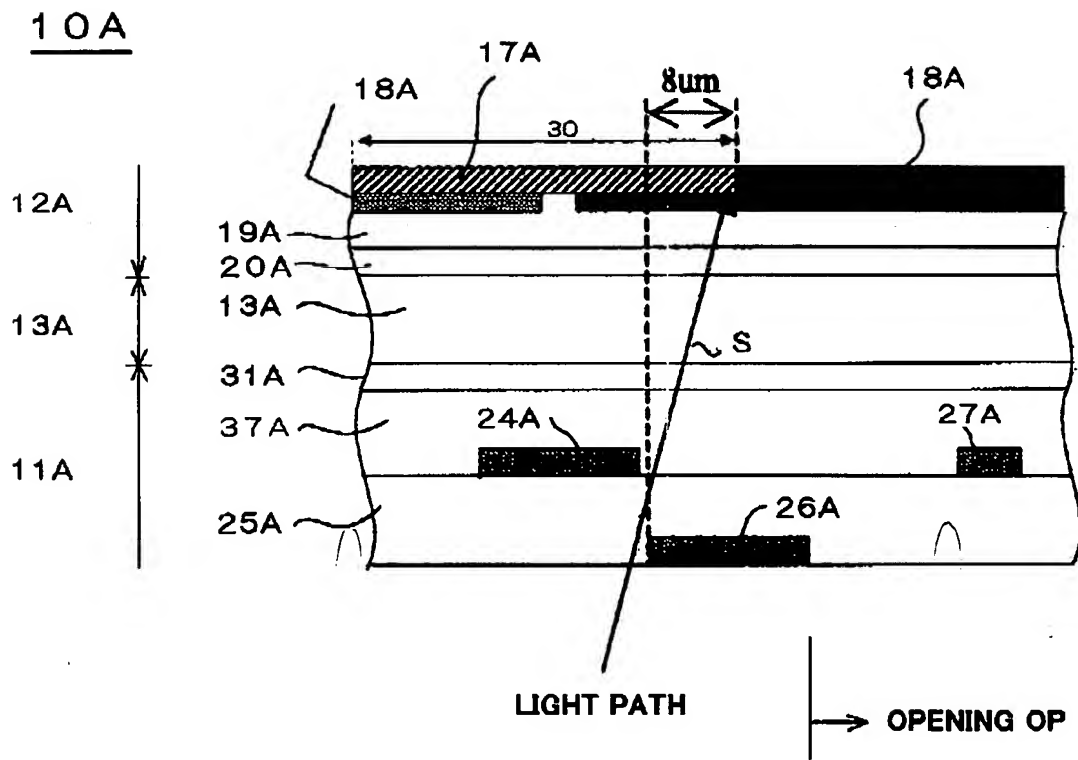


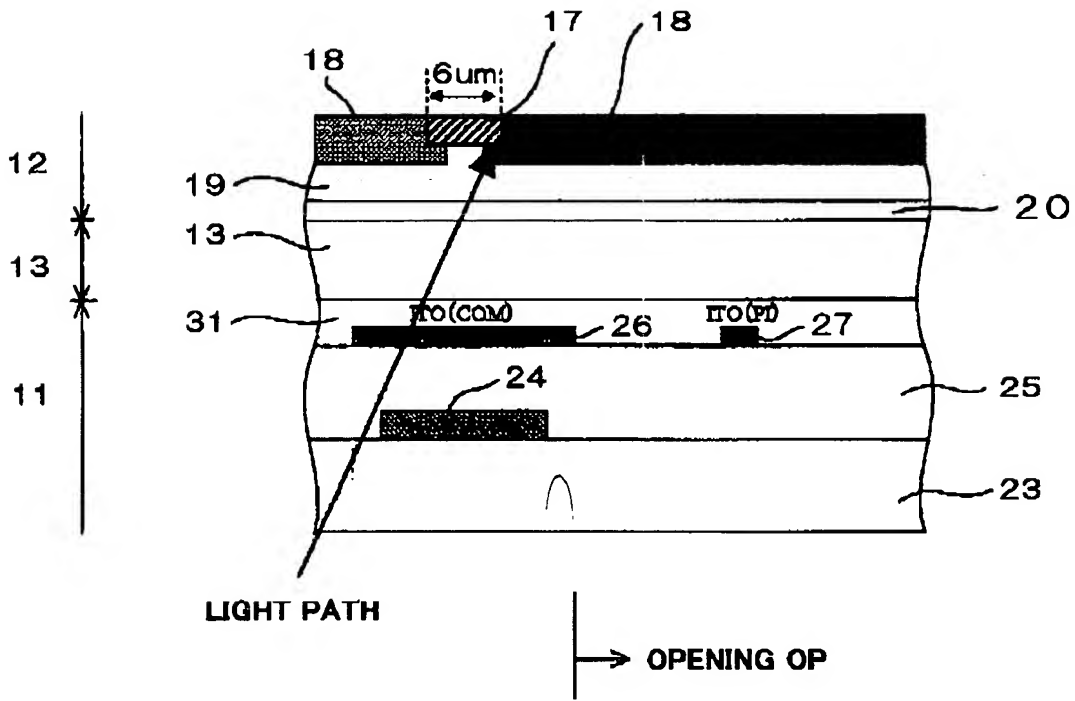
FIG.1
PRIOR ART



10031800.022202

FIG.2

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10081800.022202

FIG.3

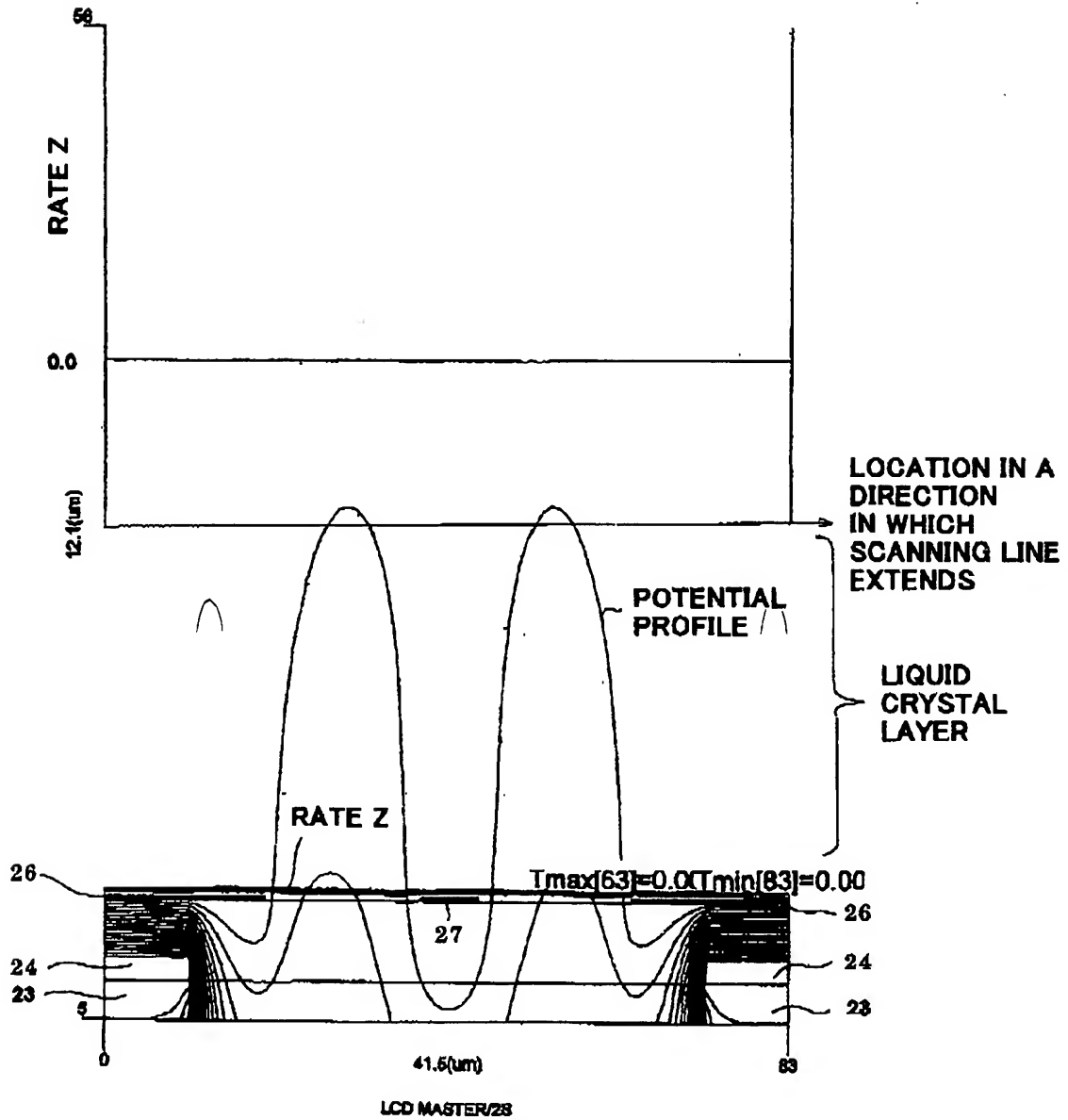
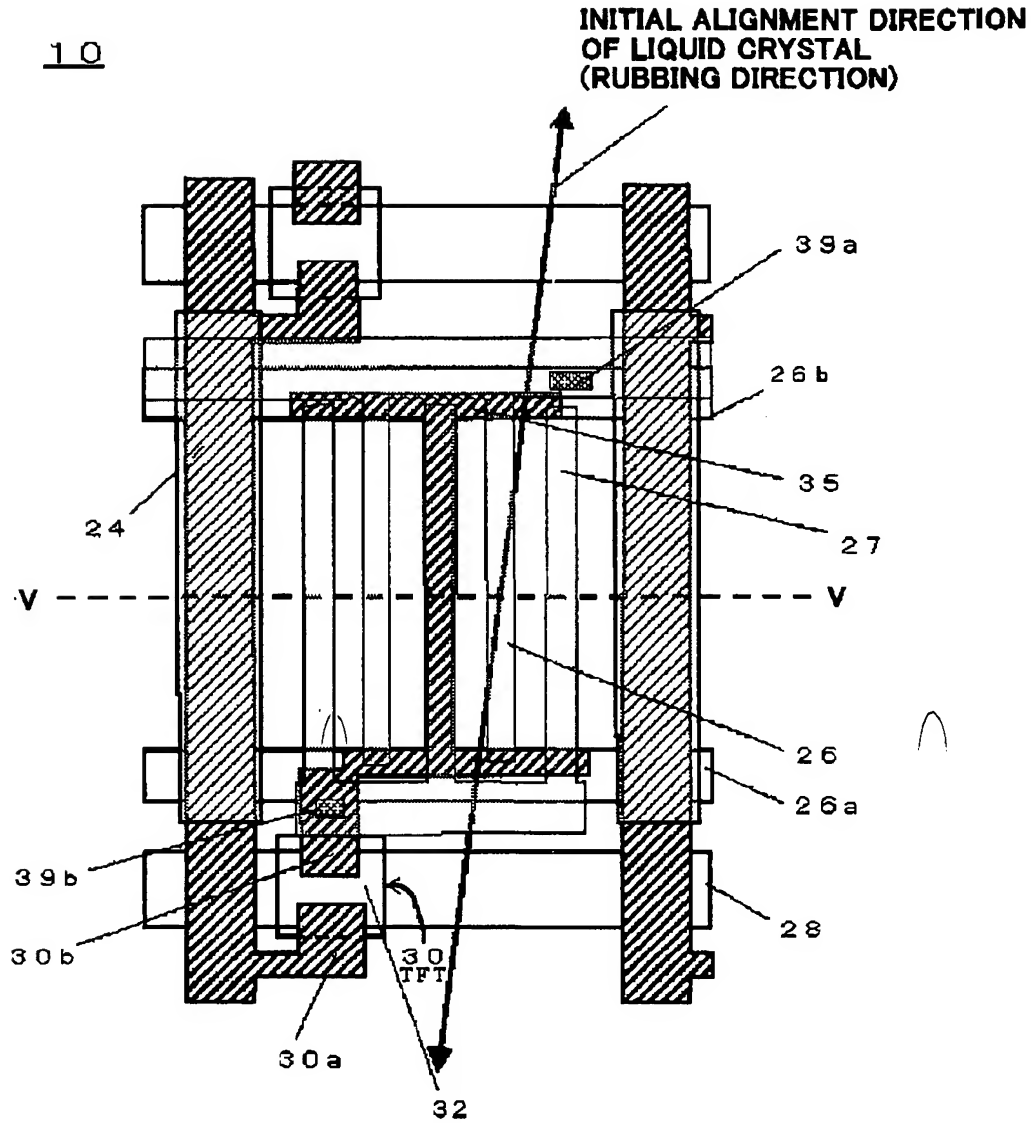


FIG.4



10

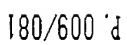
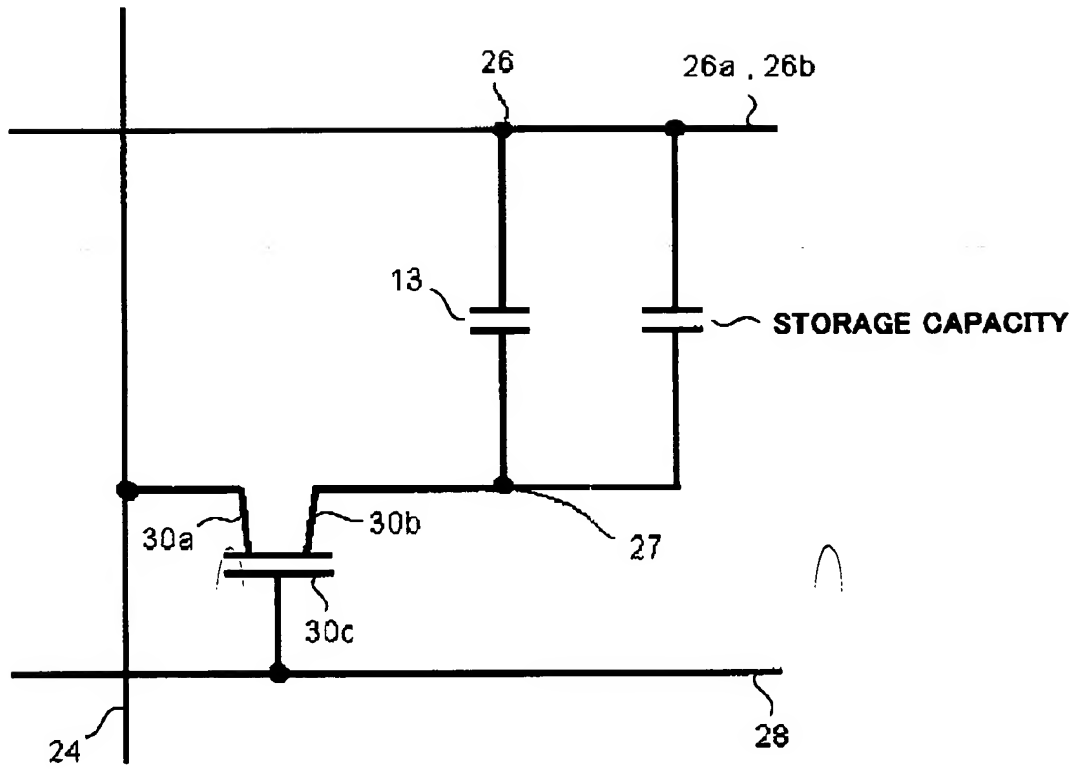


FIG.6

10

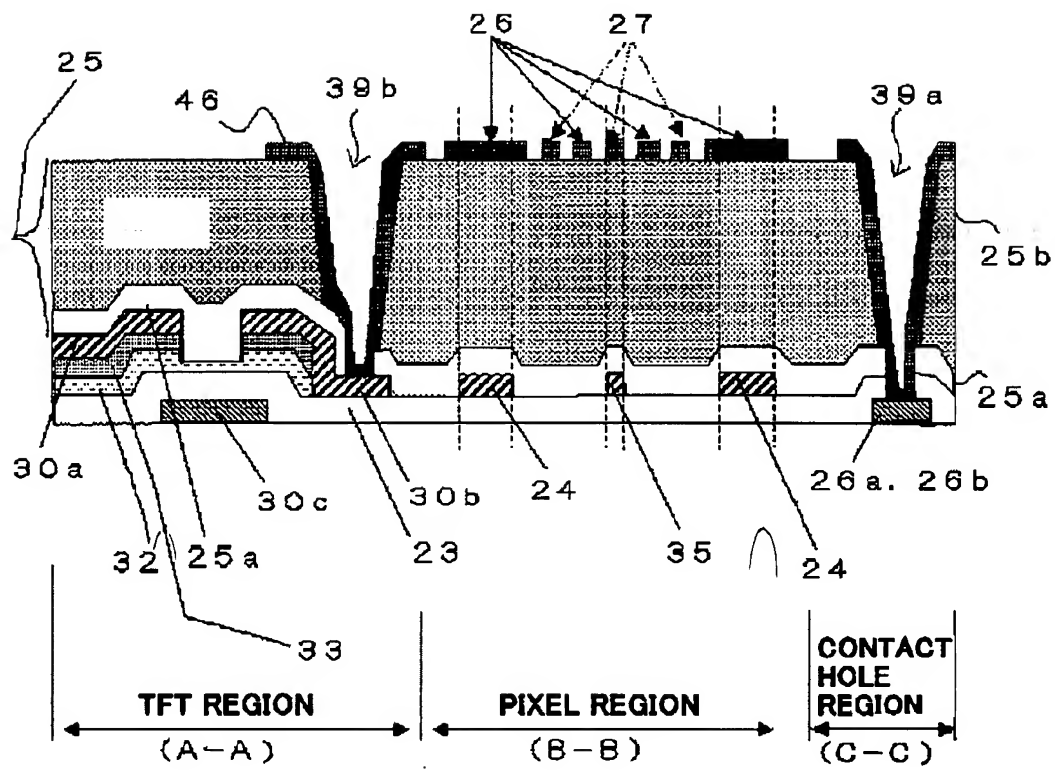


10081800.022202

(A)
LAYERS OTHER
THAN ITO LAYER

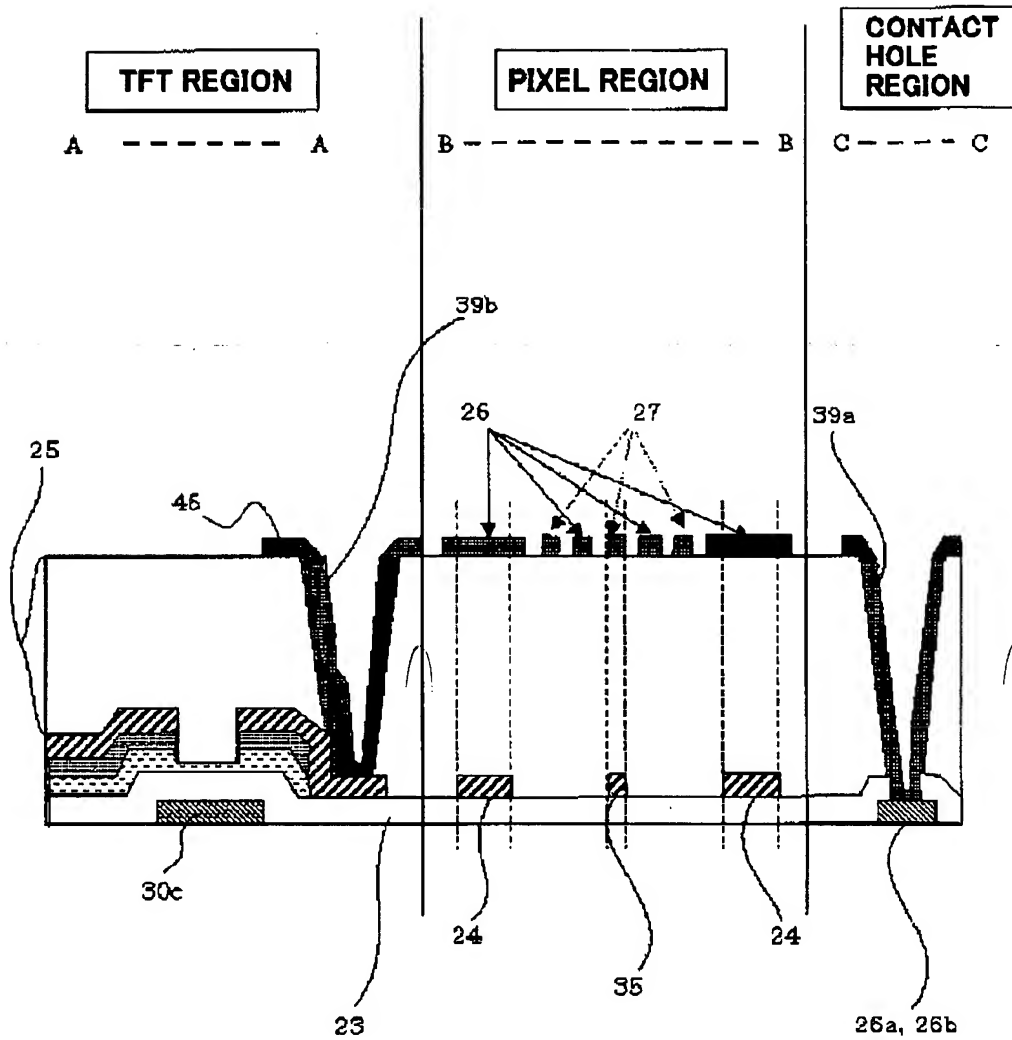


FIG.8



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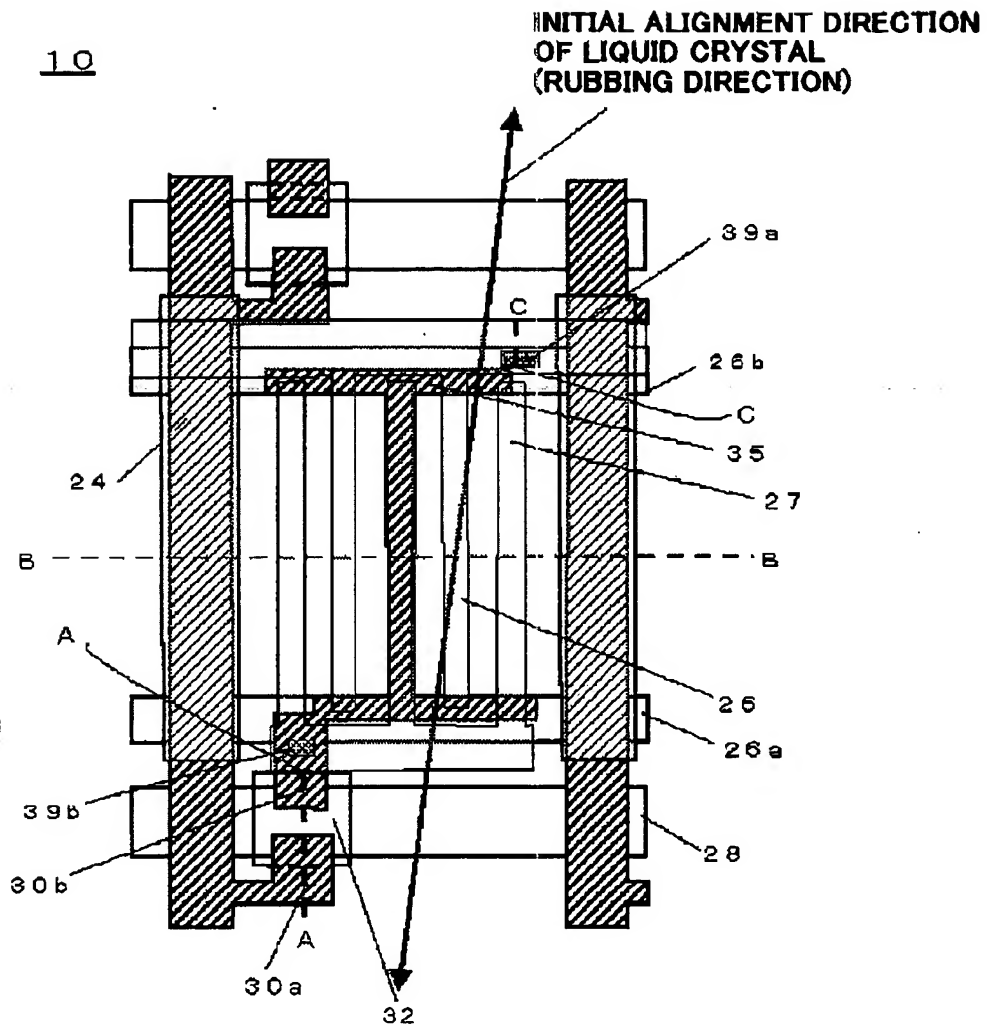
FIG.9



10081800.022202

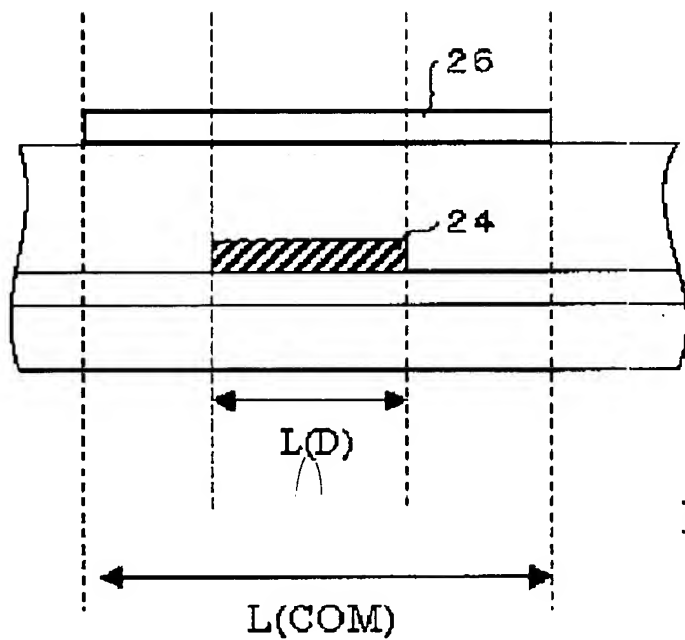
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FIG.10



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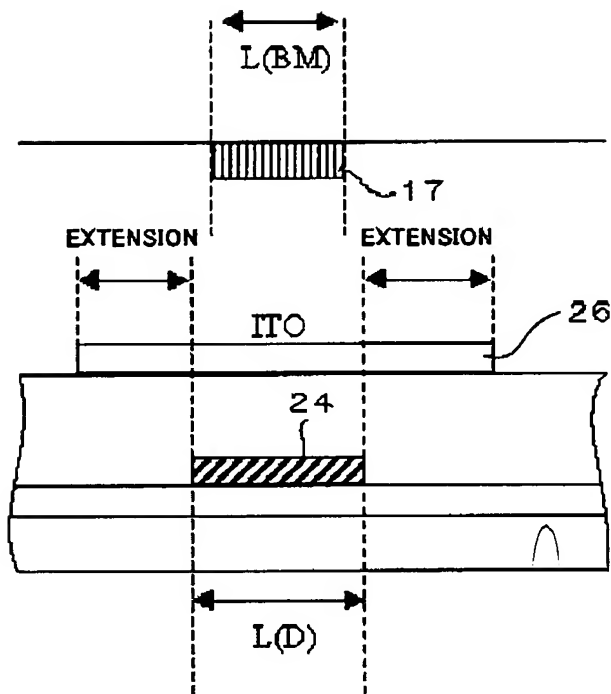
FIG.11



$$L(COM) \supset L(D)$$

10081800.022202

FIG.12

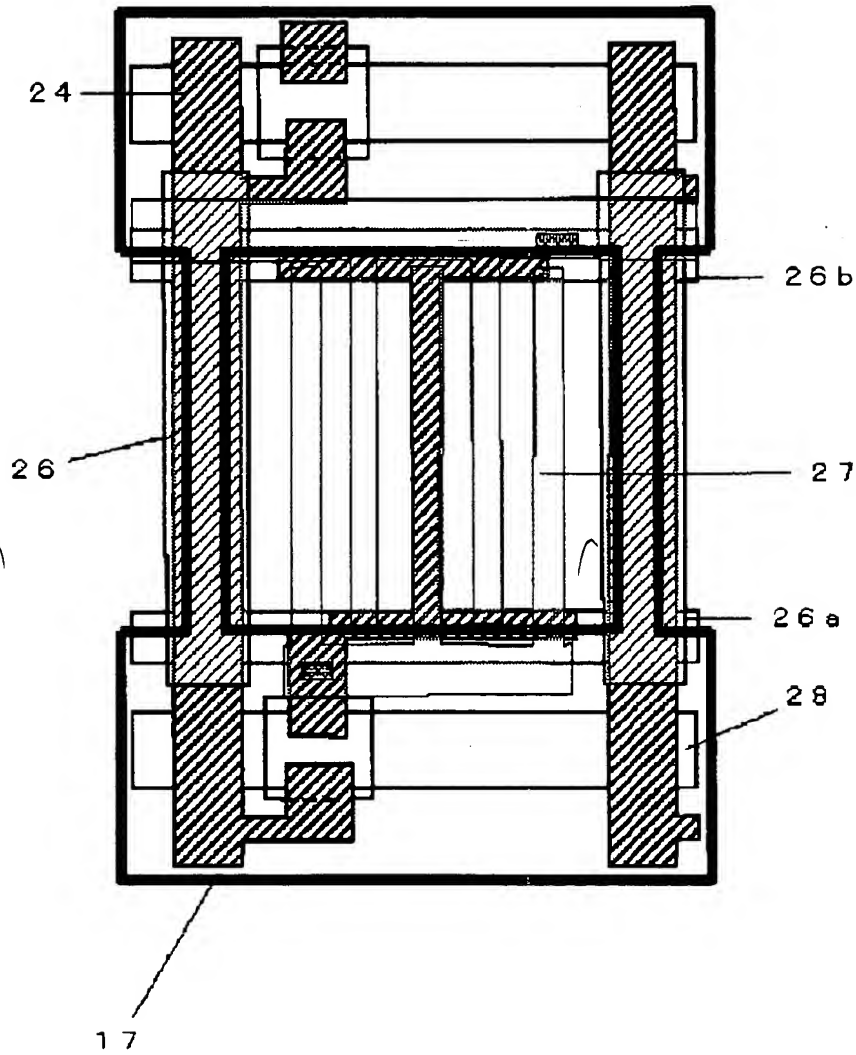


$$L(D) > L(BM)$$

10081800.022202

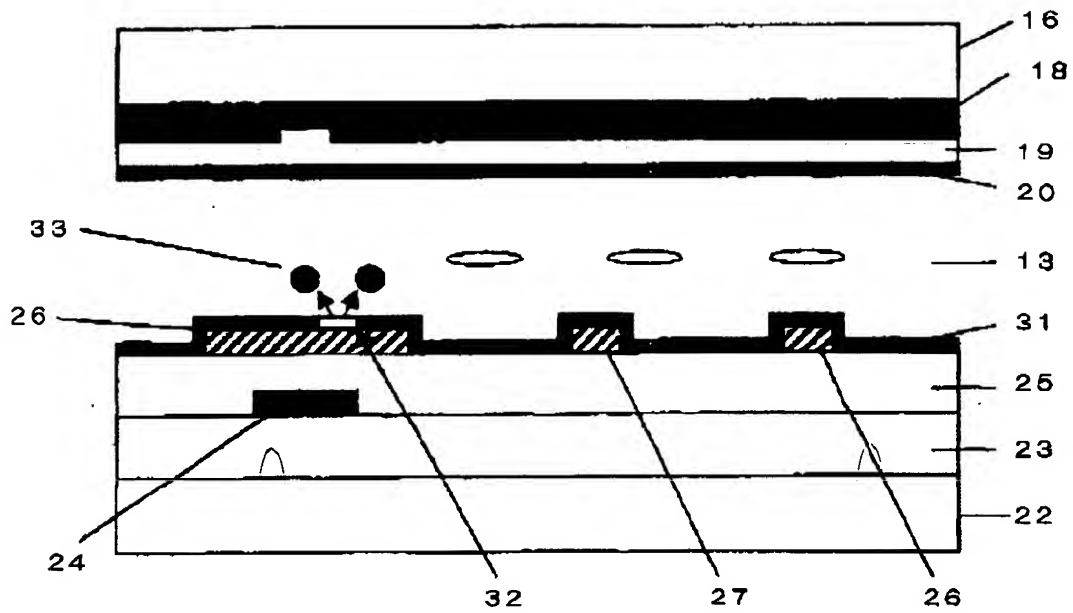
FIG.13

10



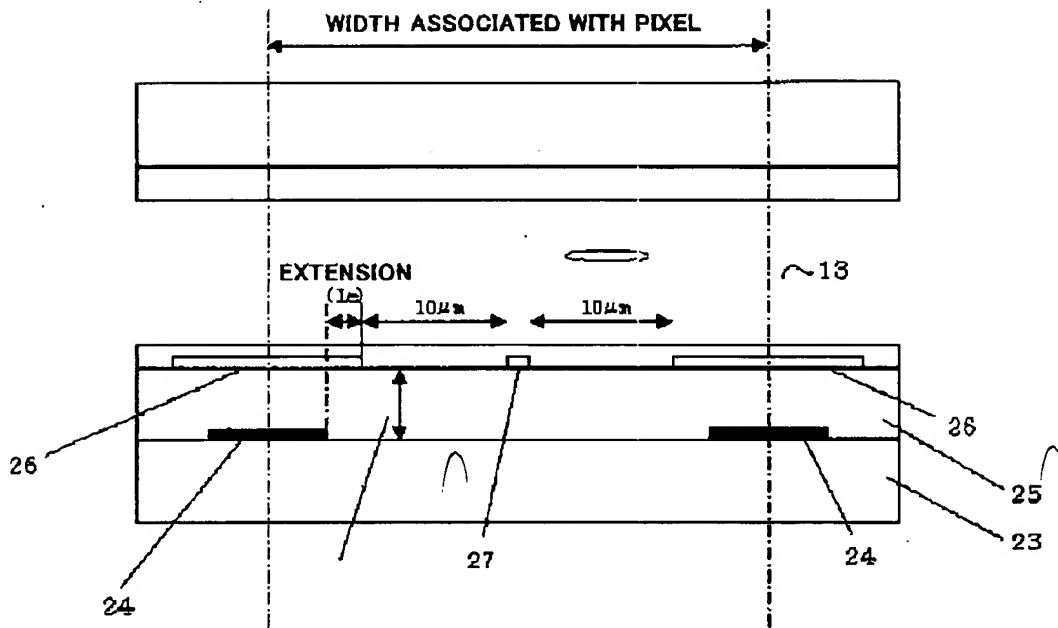
10081800.022202

FIG.14



10081800.022202

FIG.15



10081800, 022202

FIG.16

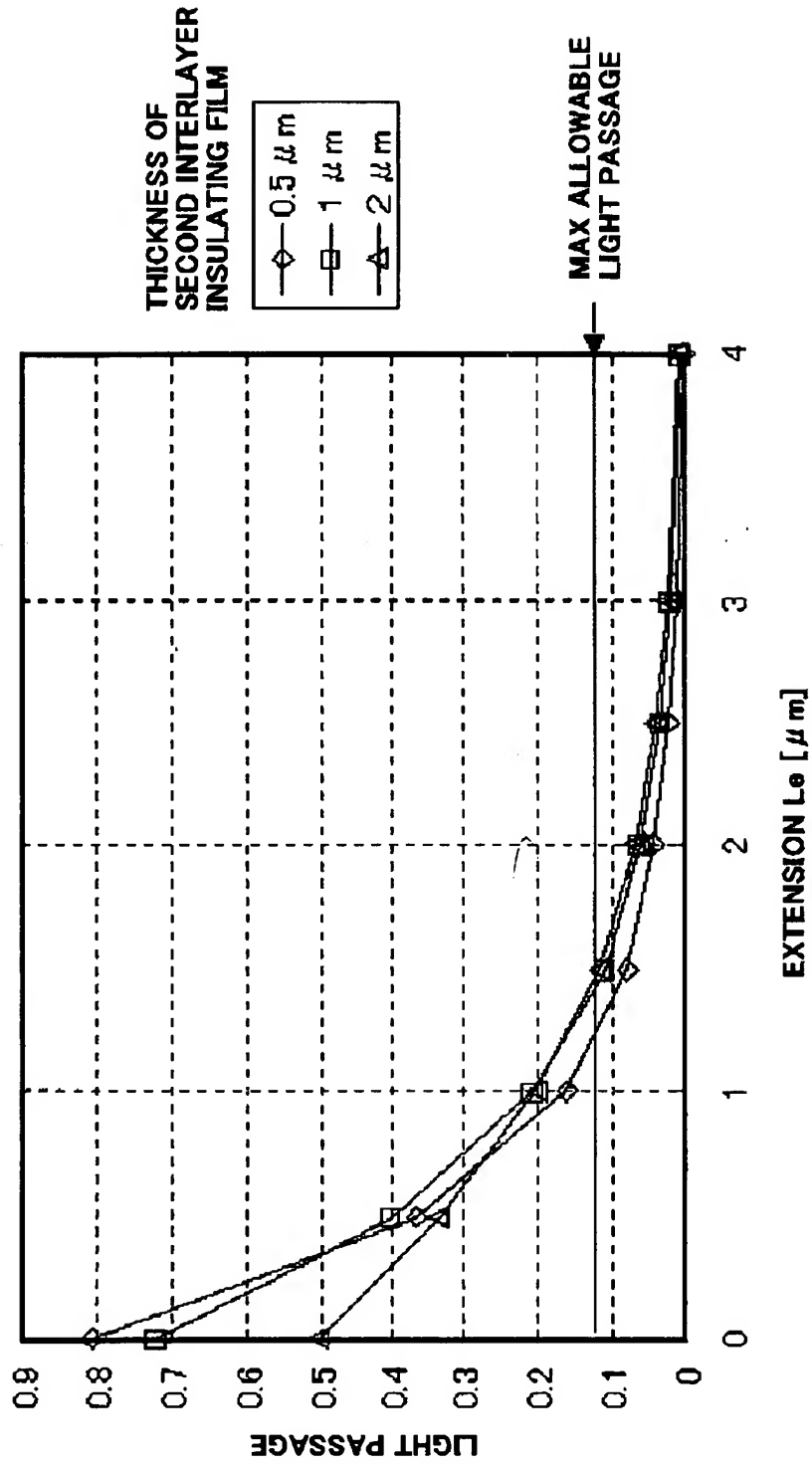
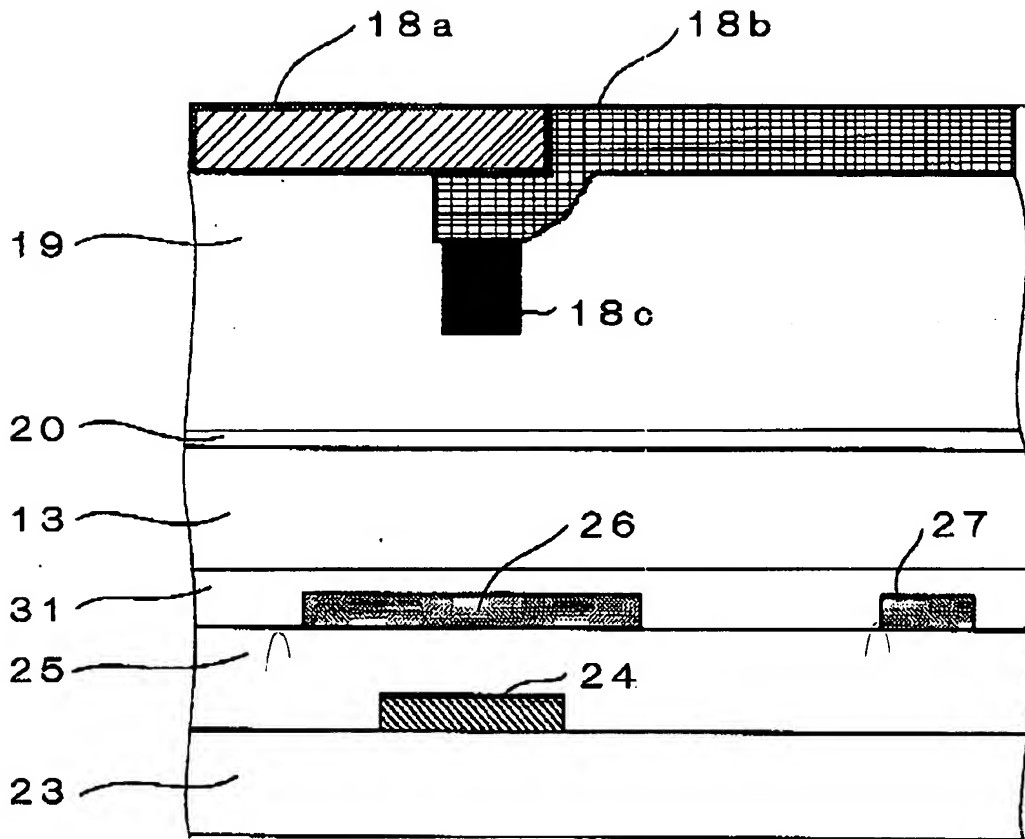
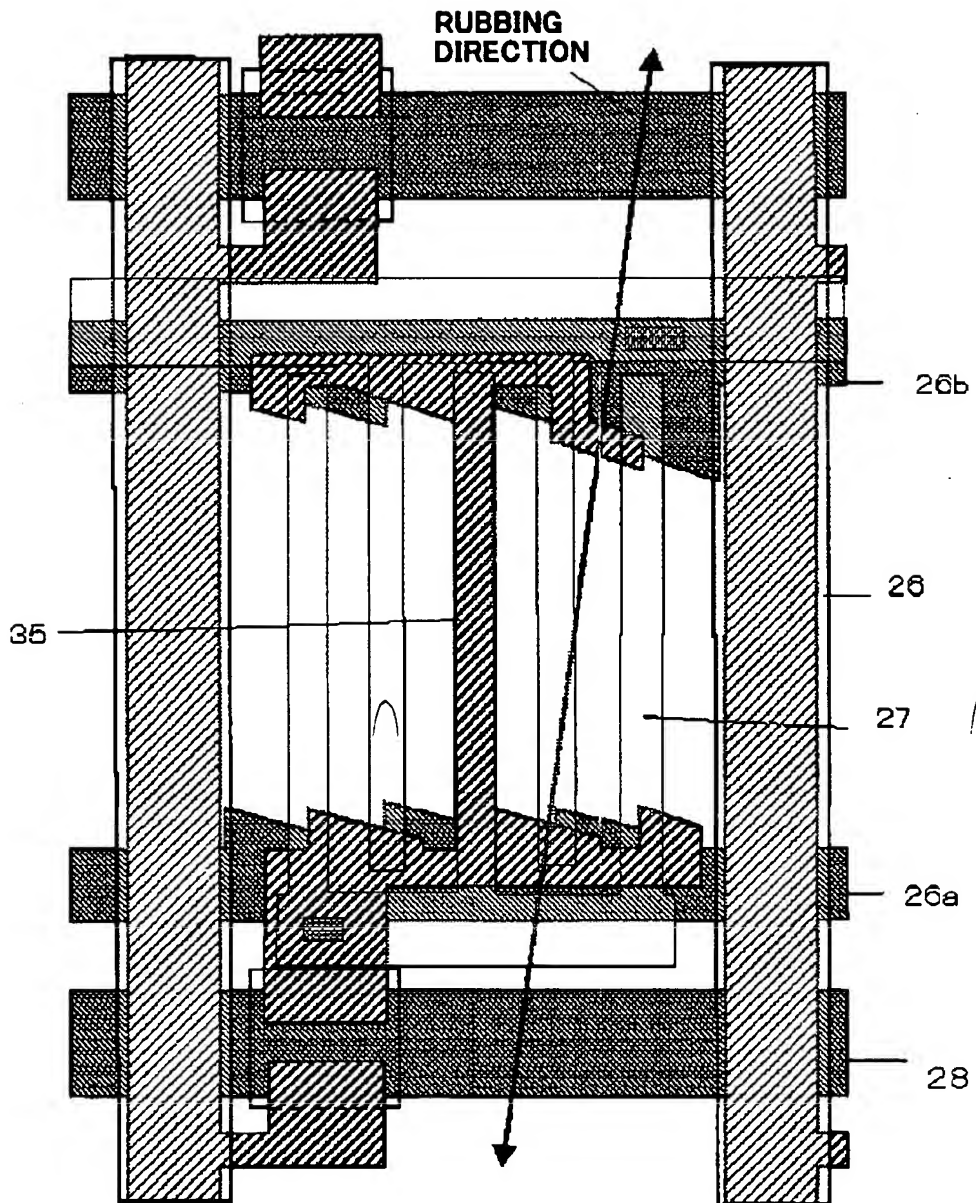


FIG.17



10081800-022202

FIG.18



10081800.022262

FIG.19A

LAYERS OTHER
THAN ITO LAYER

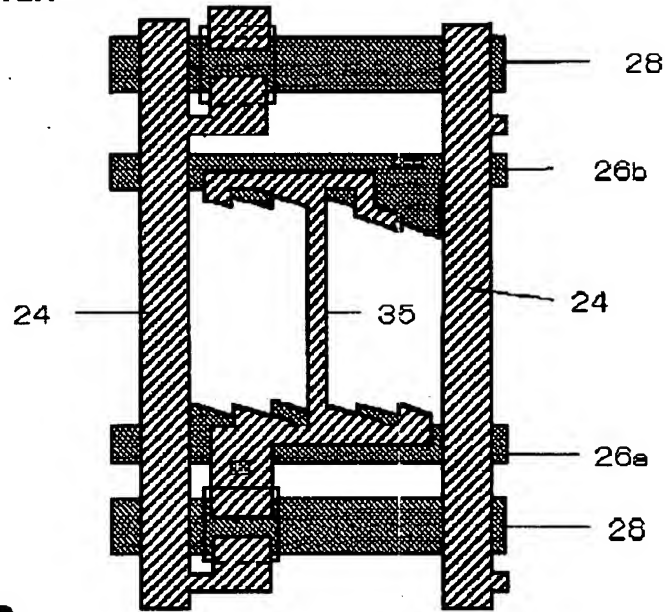
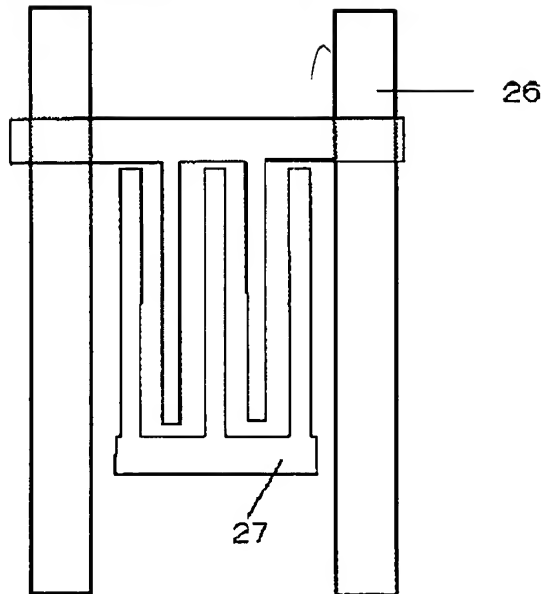


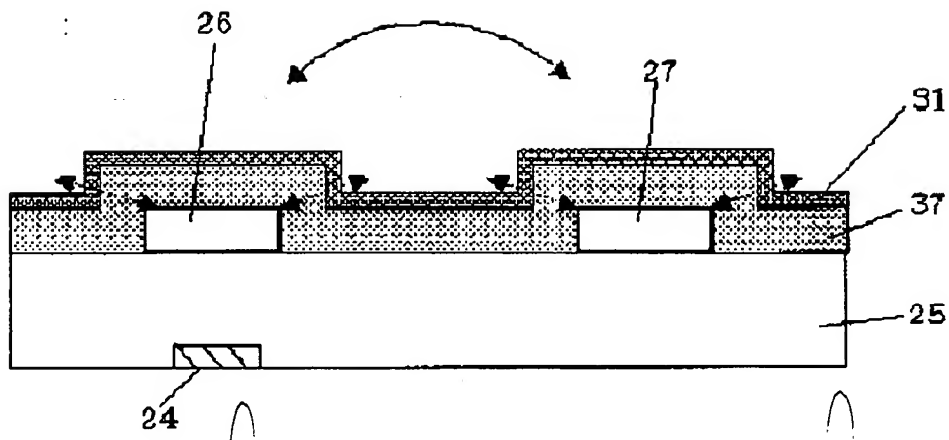
FIG.19B

ITO LAYER



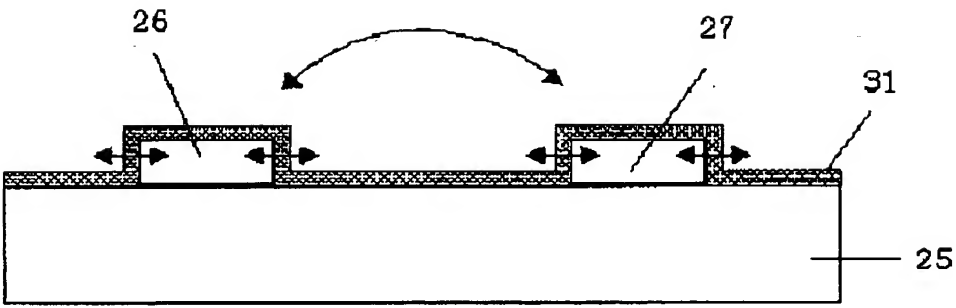
10081800.022202

FIG.20



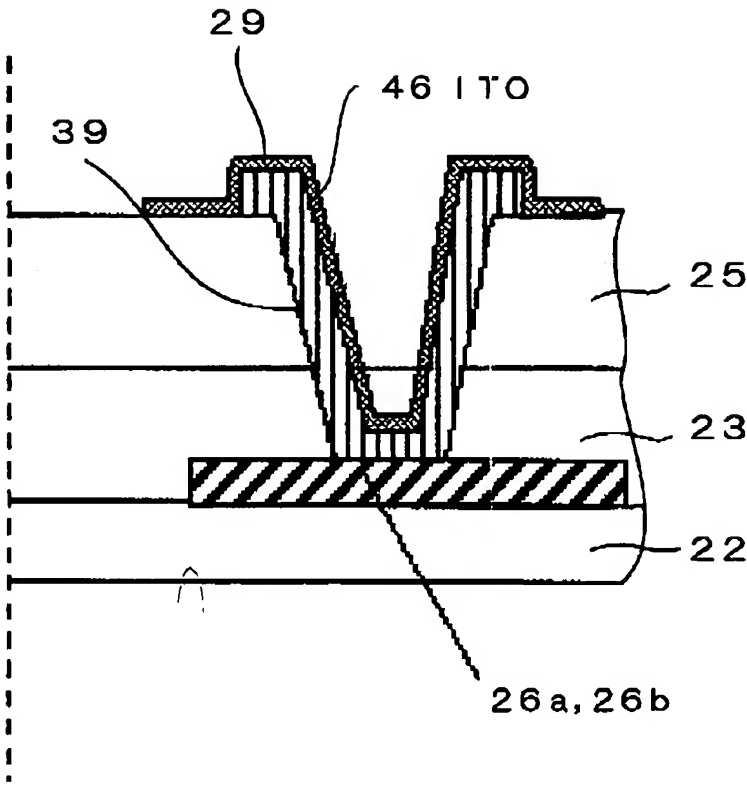
10081800.022202

FIG.21



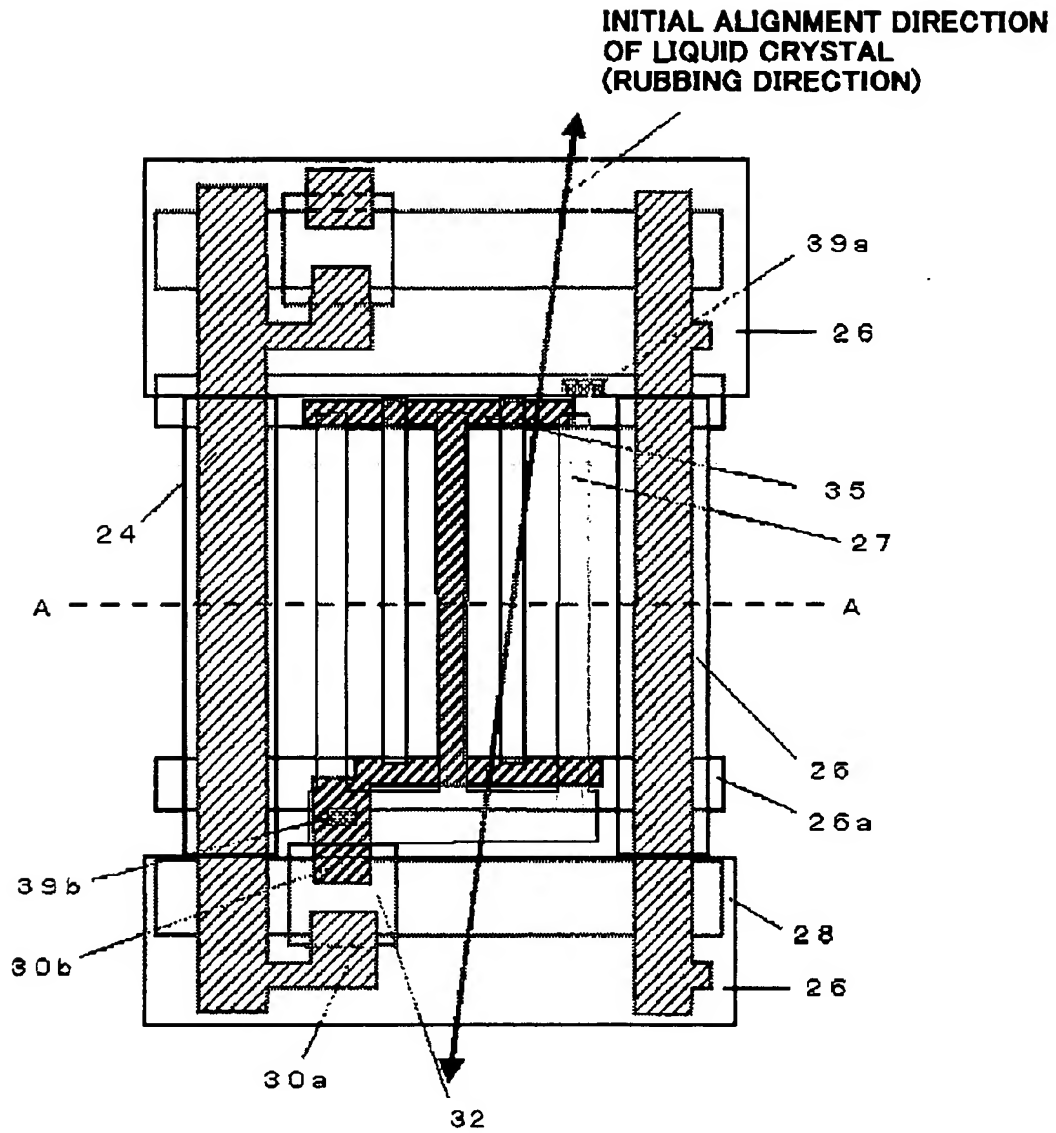
10031800.022202

FIG.22



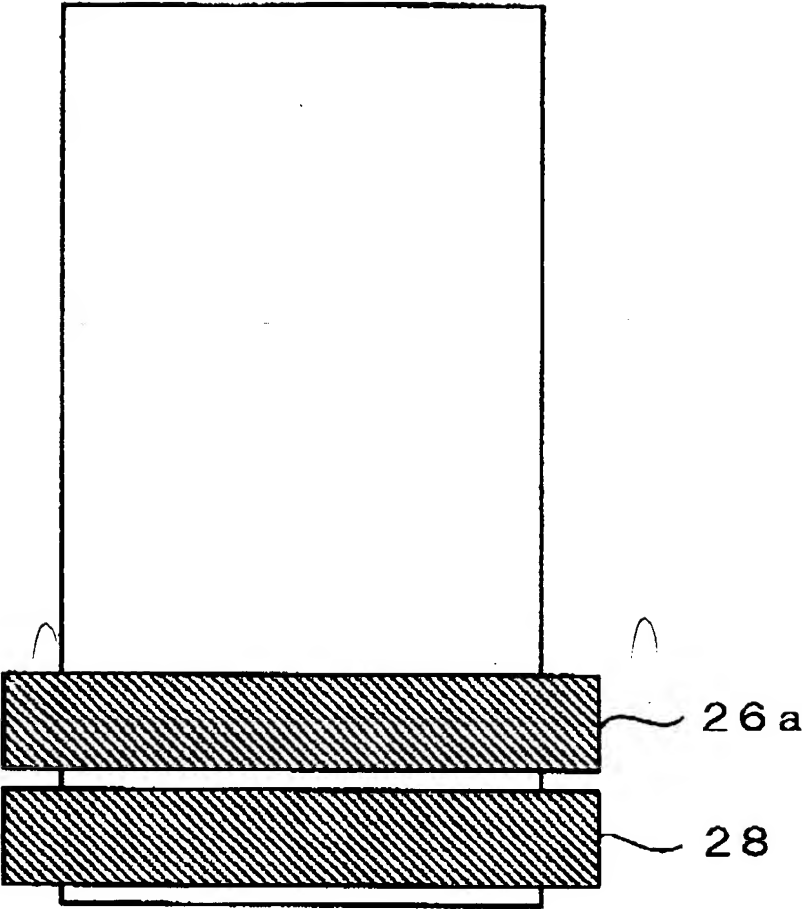
10081800.022202

FIG.23



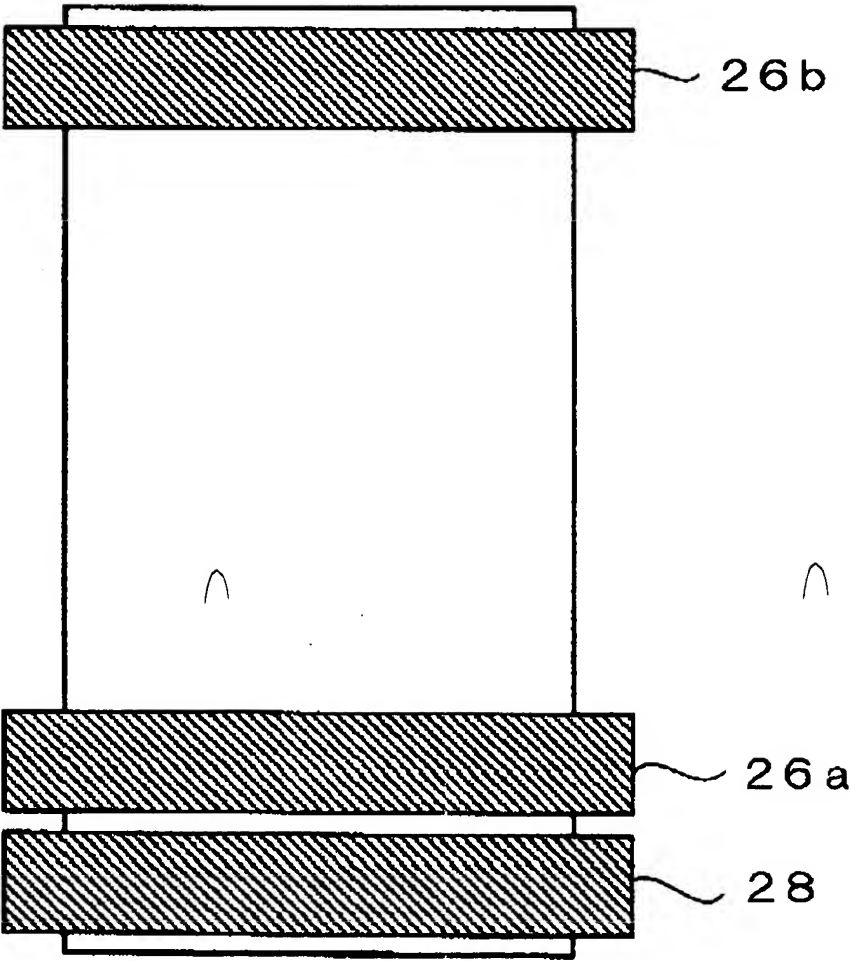
10081800.022202

FIG.24



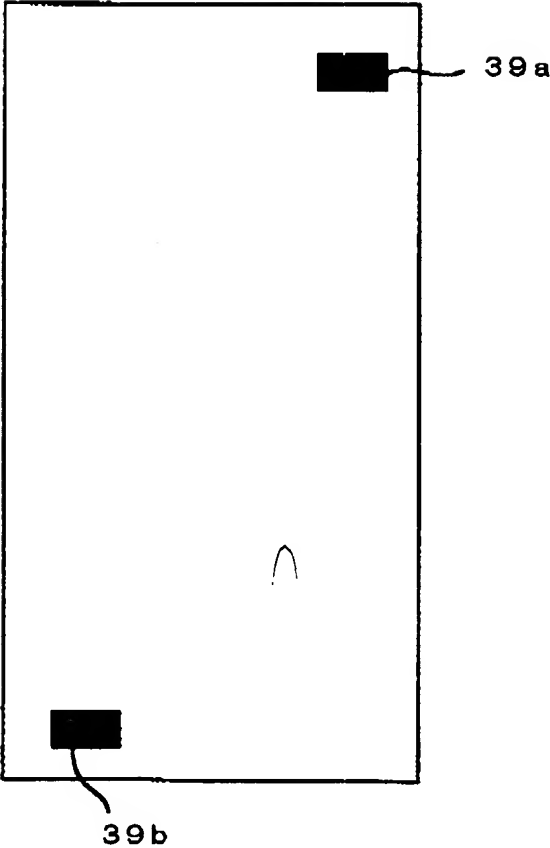
10081800.022202

FIG.25



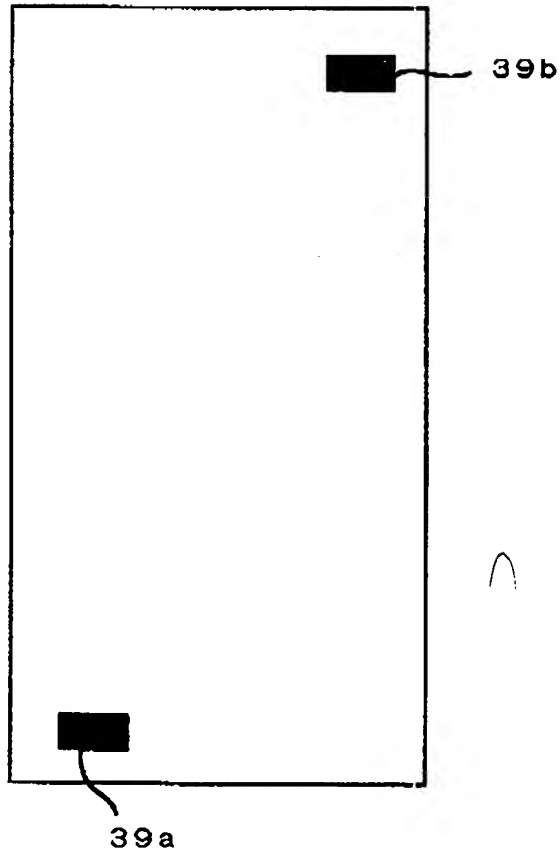
10081800.022222

FIG.26

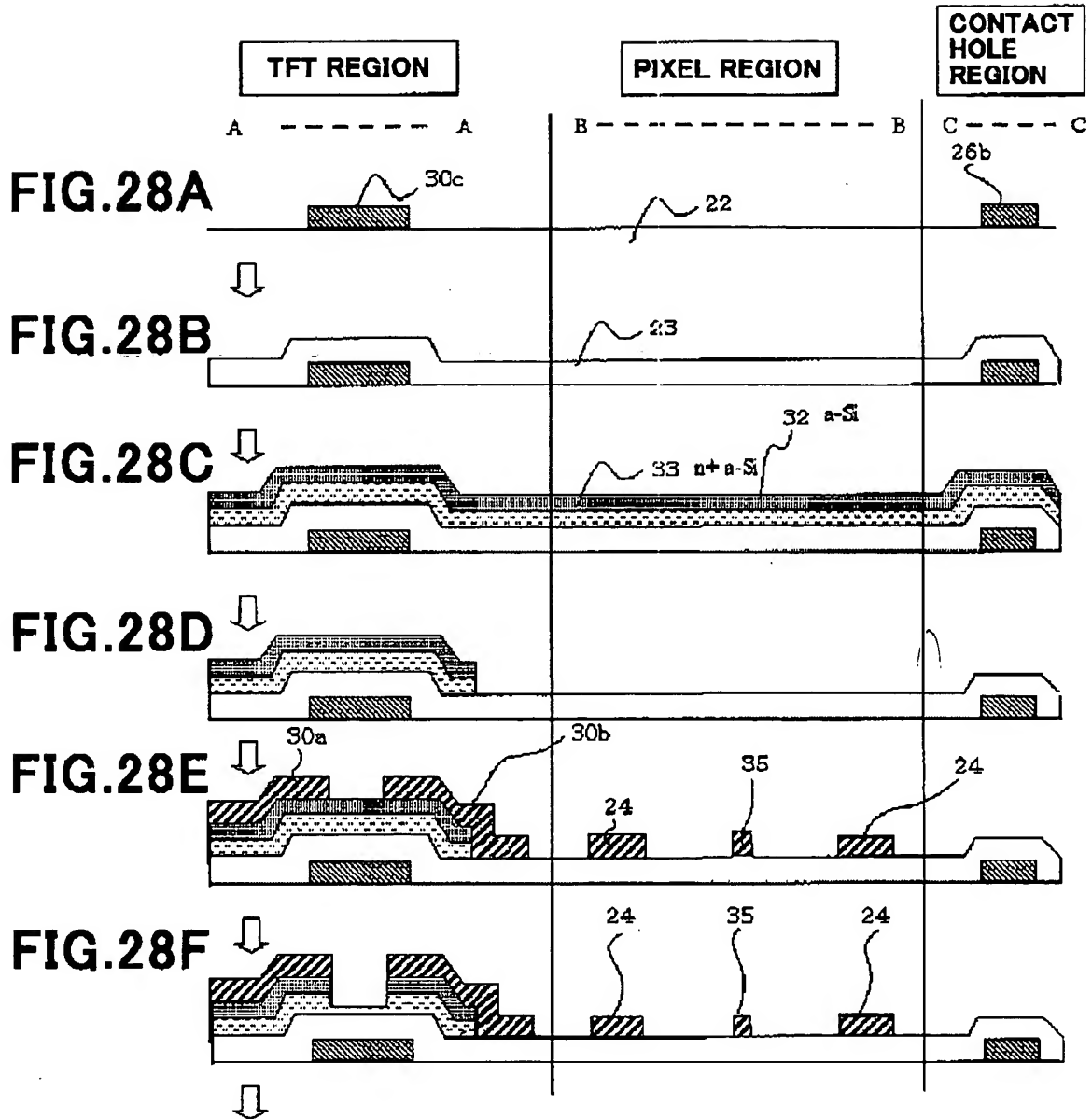


10081800.022202

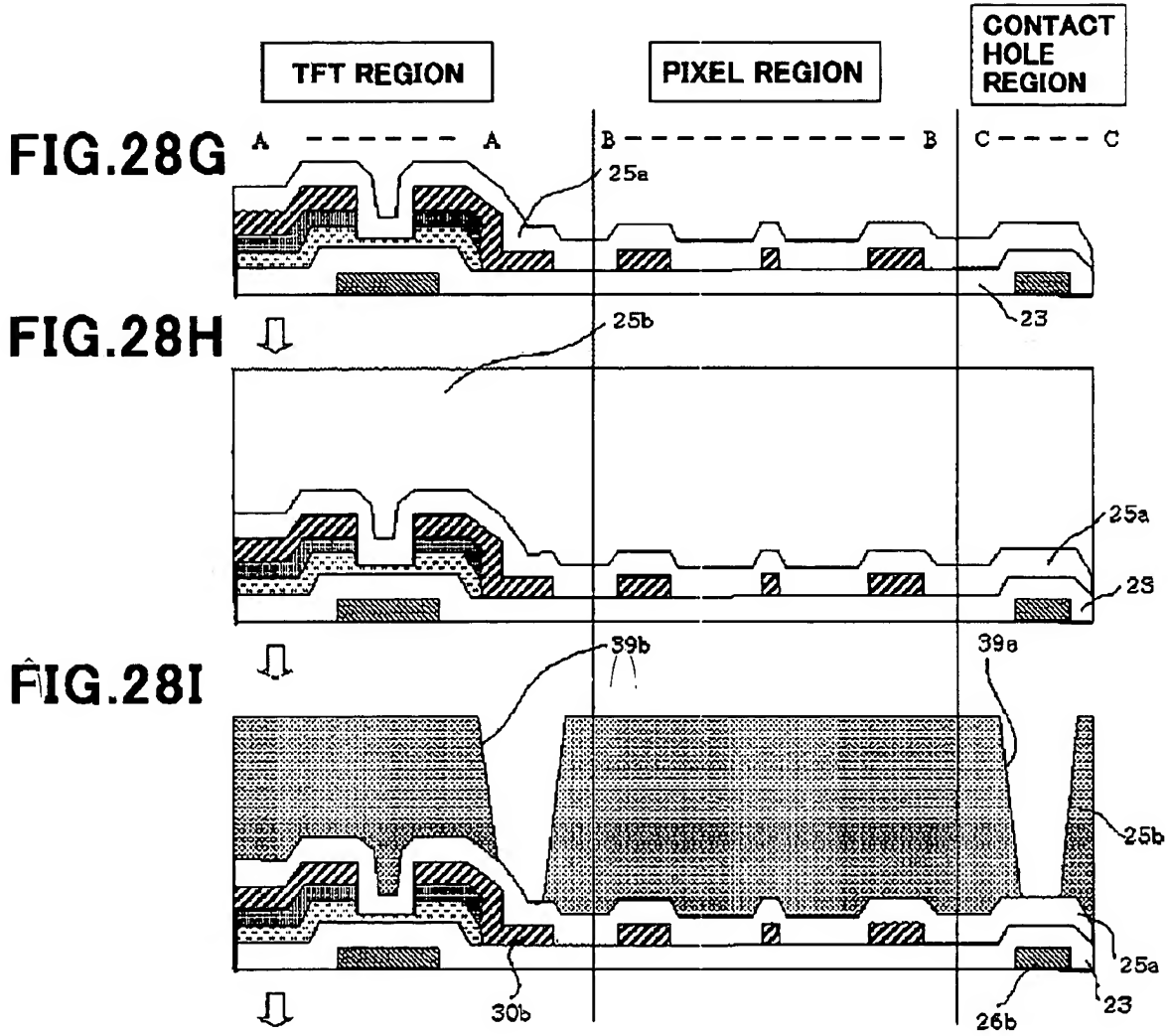
FIG.27



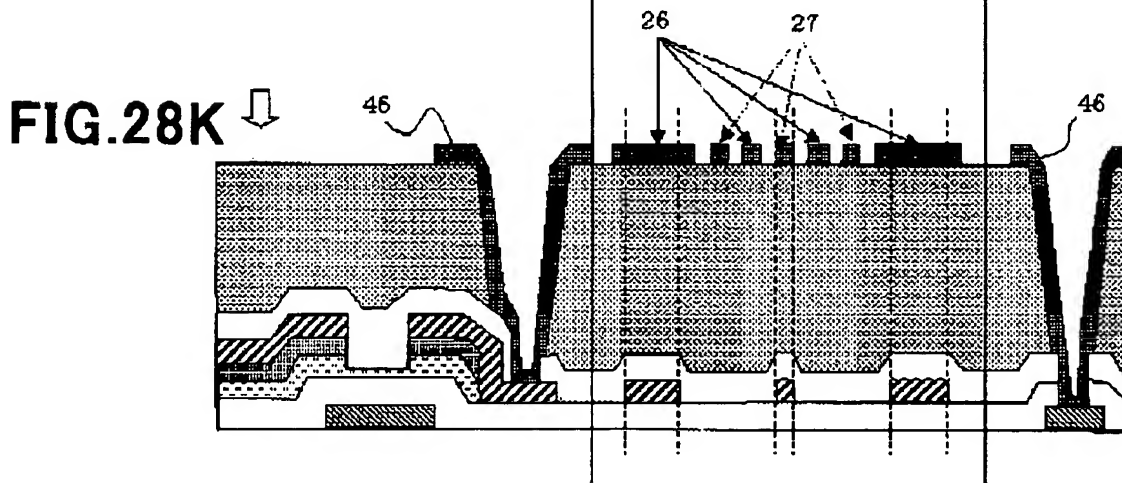
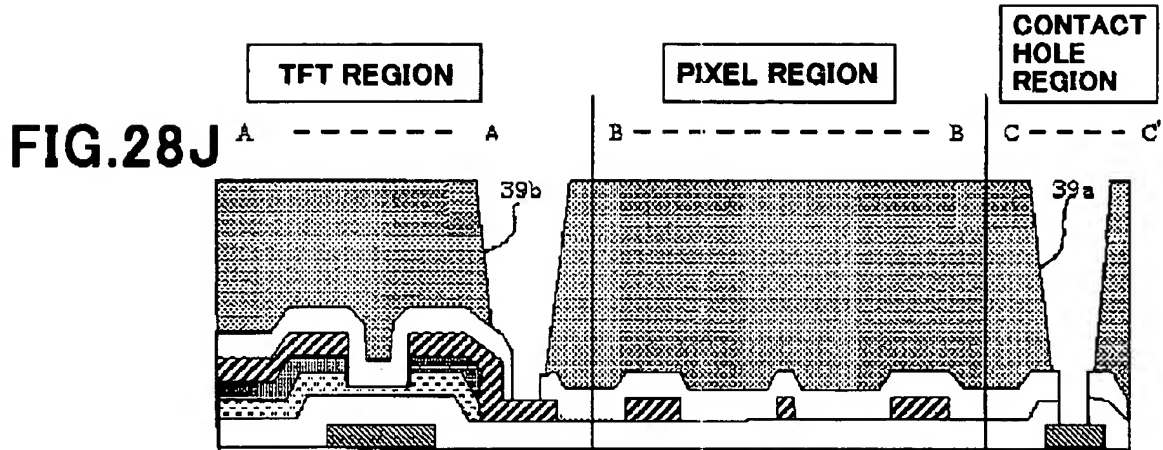
10081800, 022202



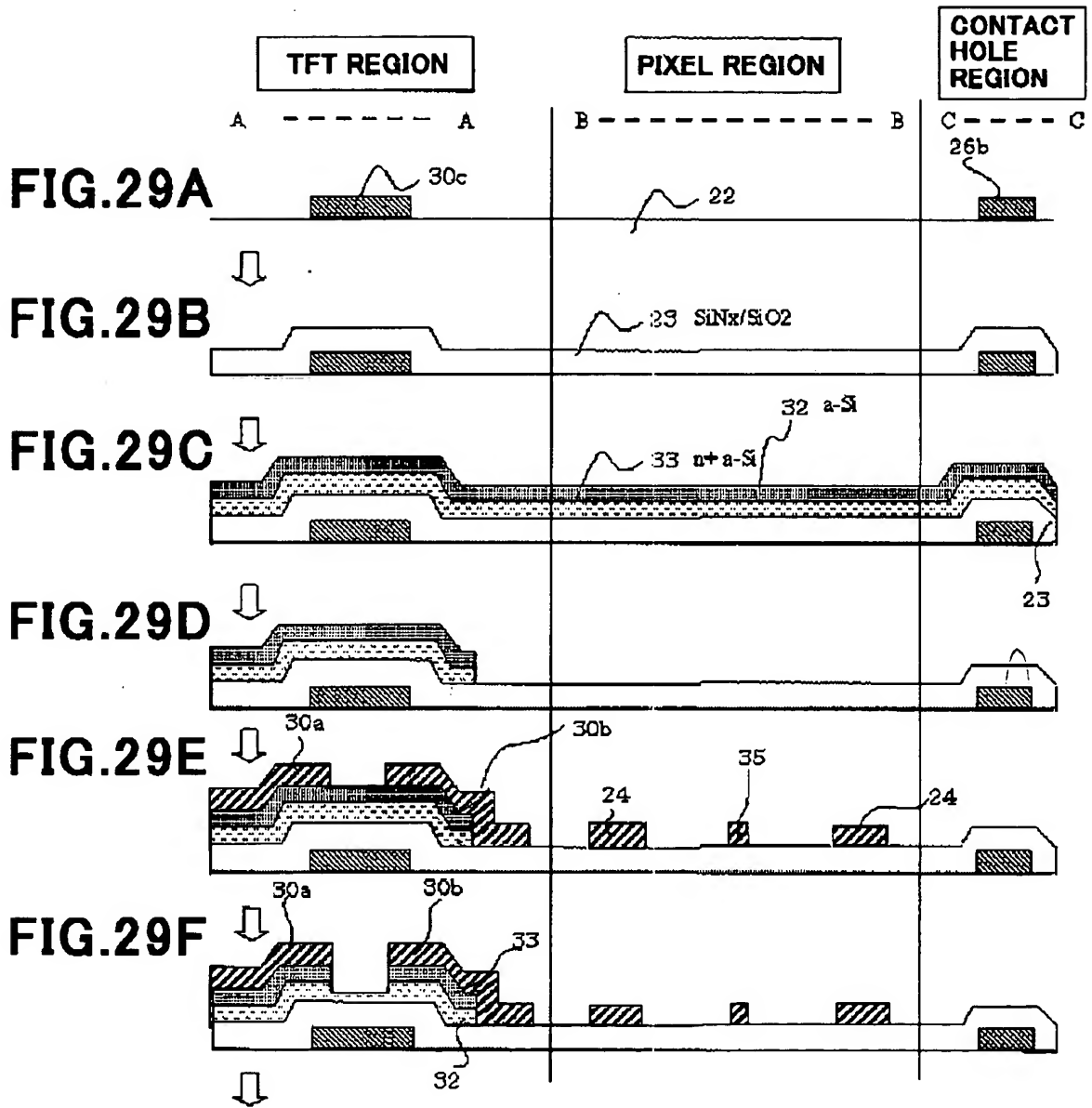
10081800, 022202



10081800.022202



10081800.022202



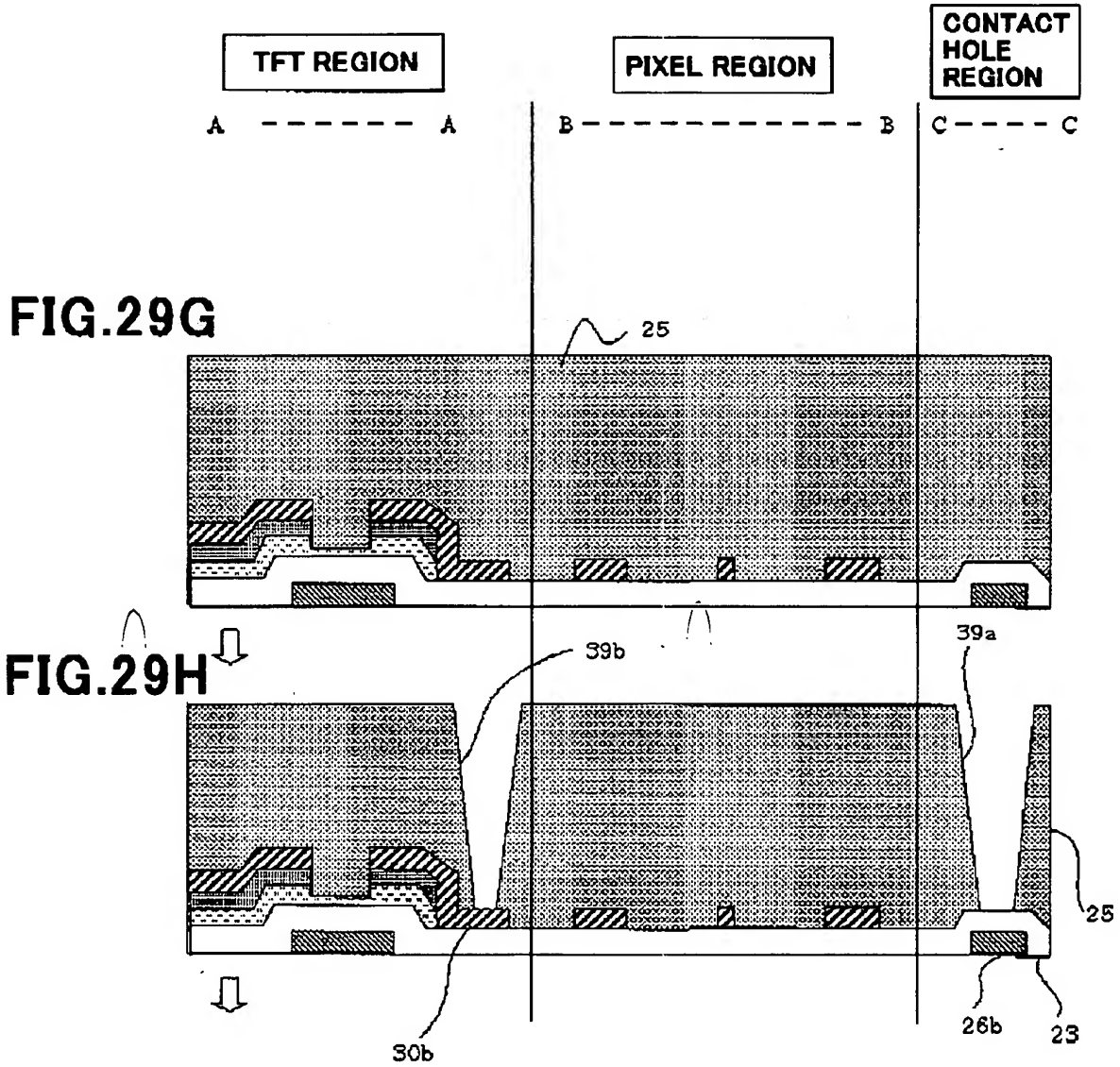
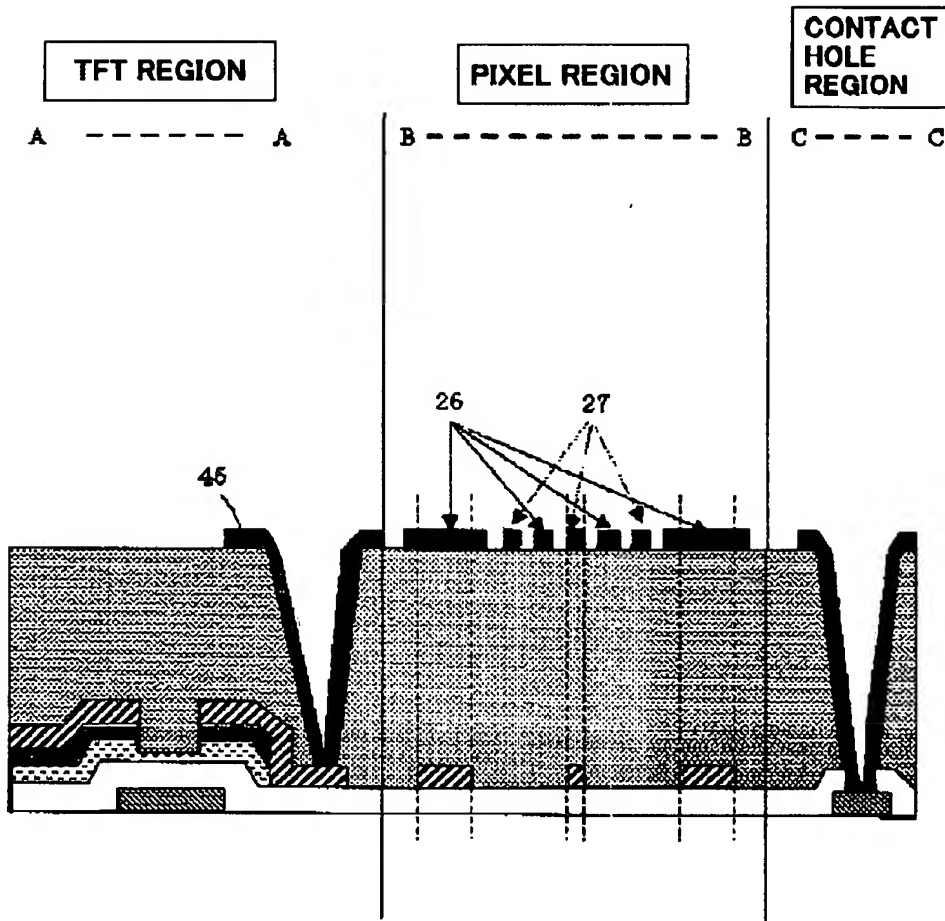
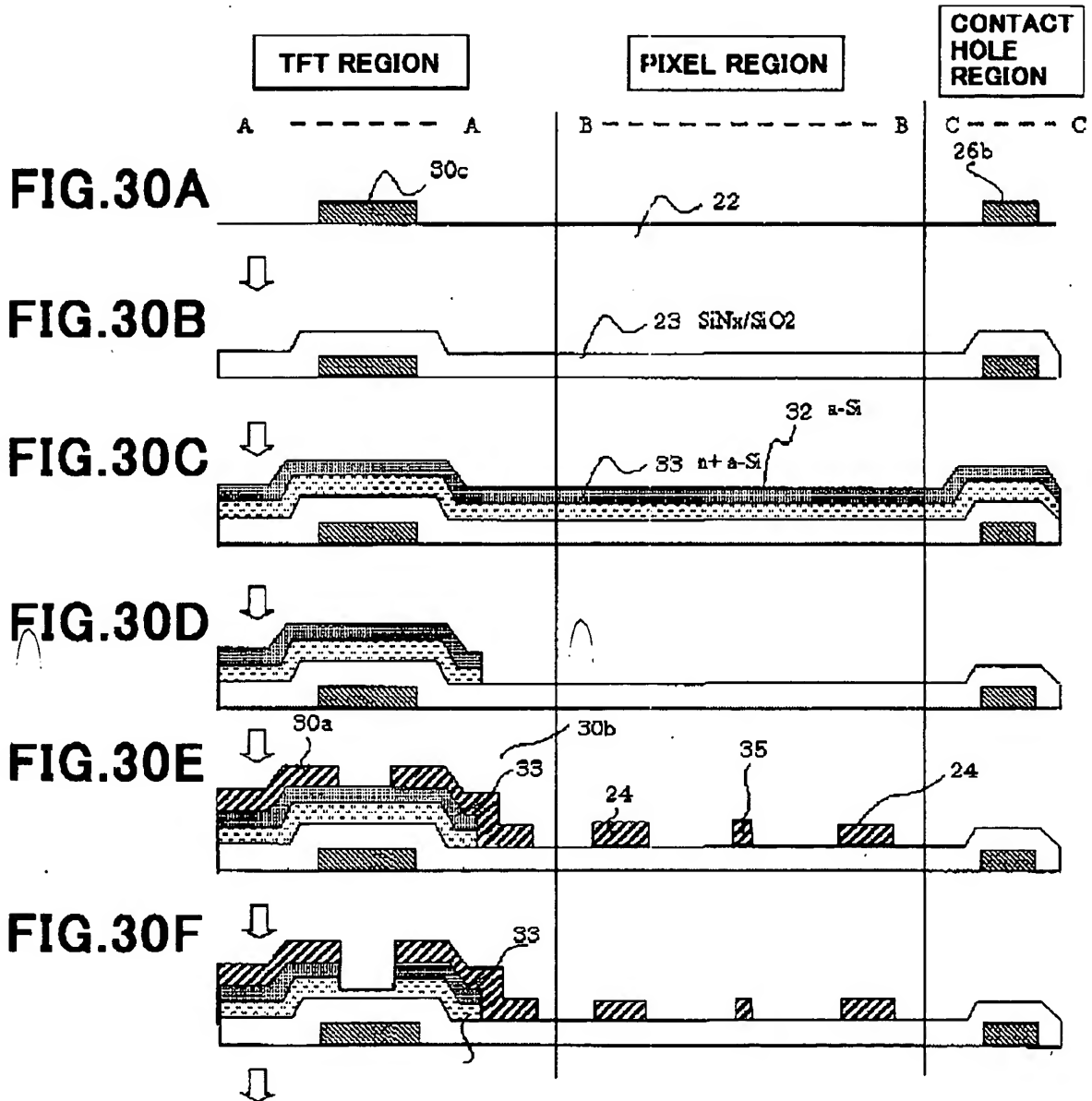


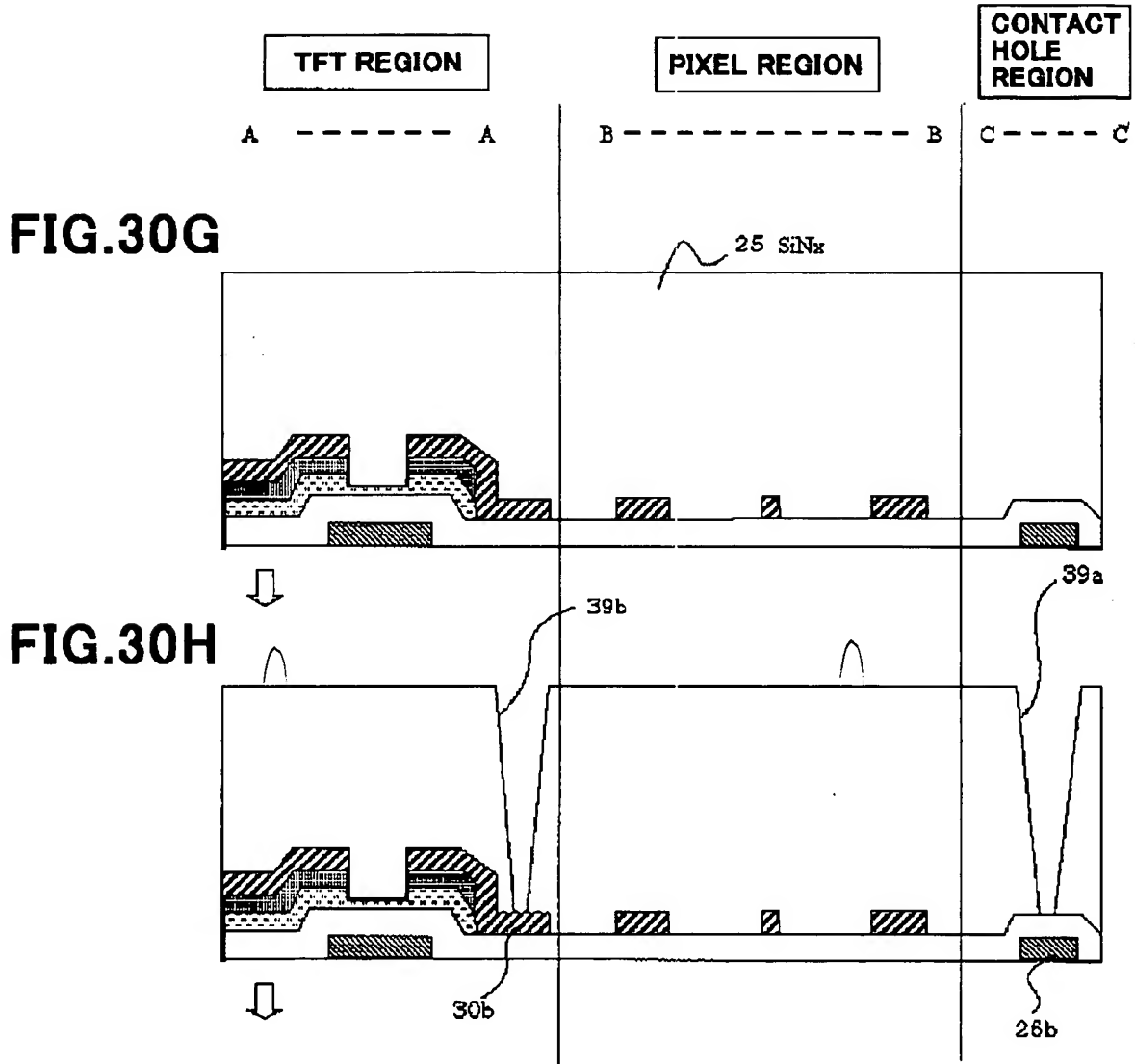
FIG.29I



10081800, 022202

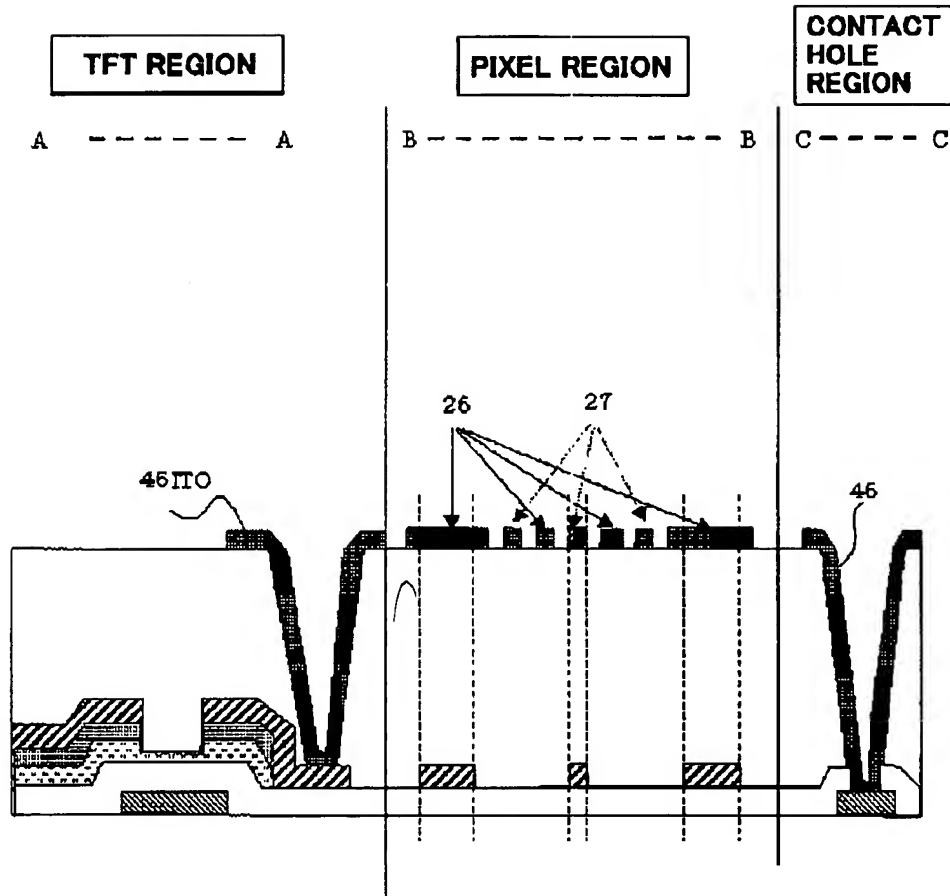


10081800.022202



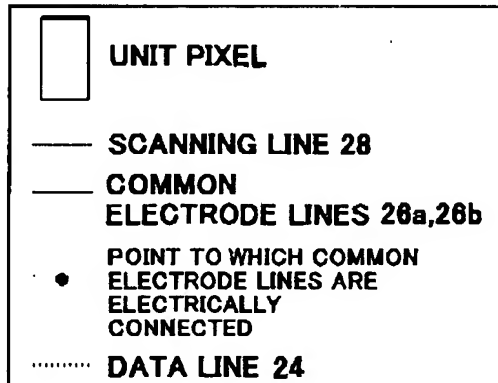
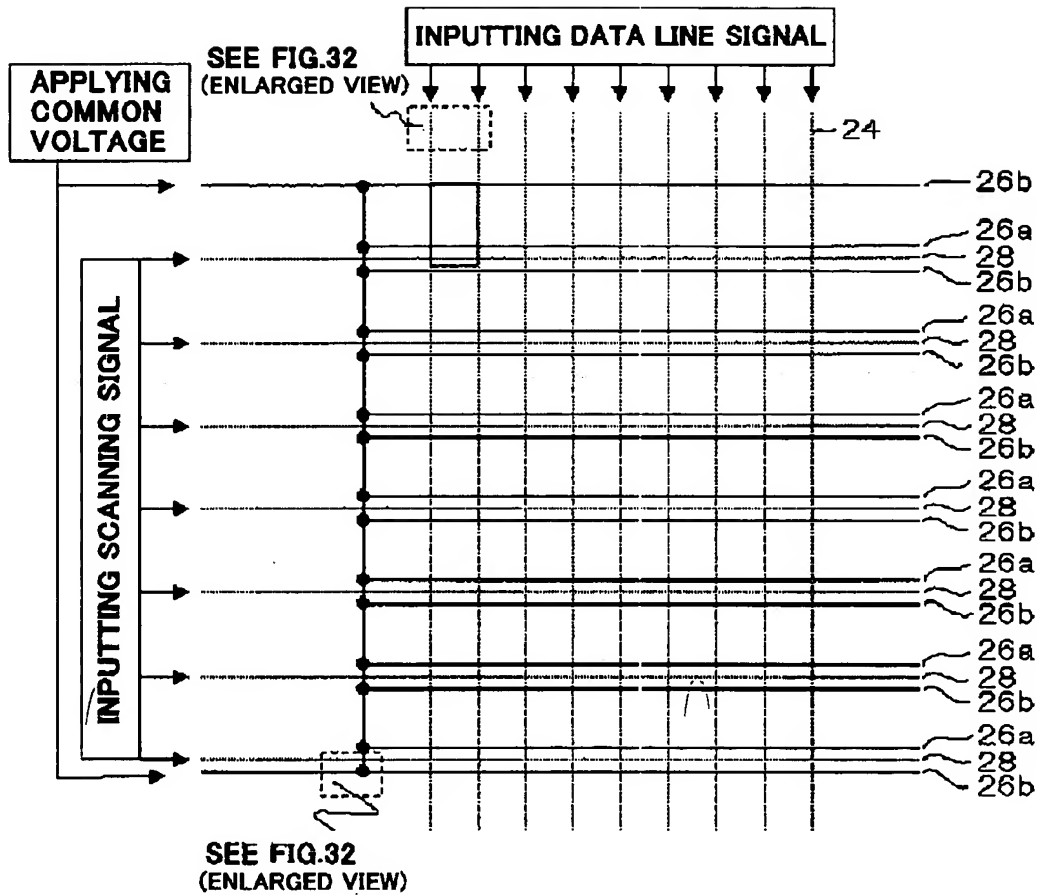
10081800.022202

FIG.30I



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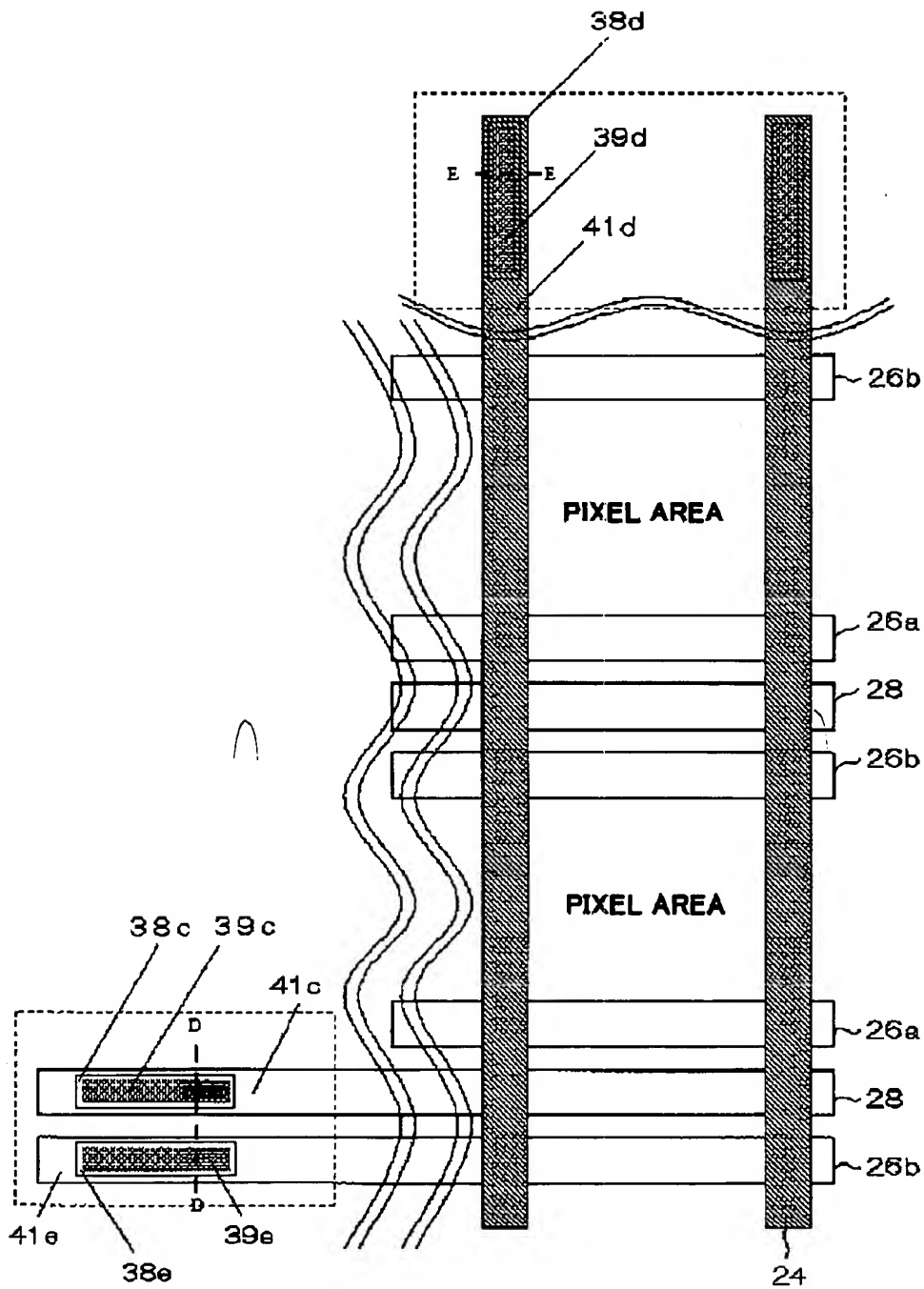
FIG.31

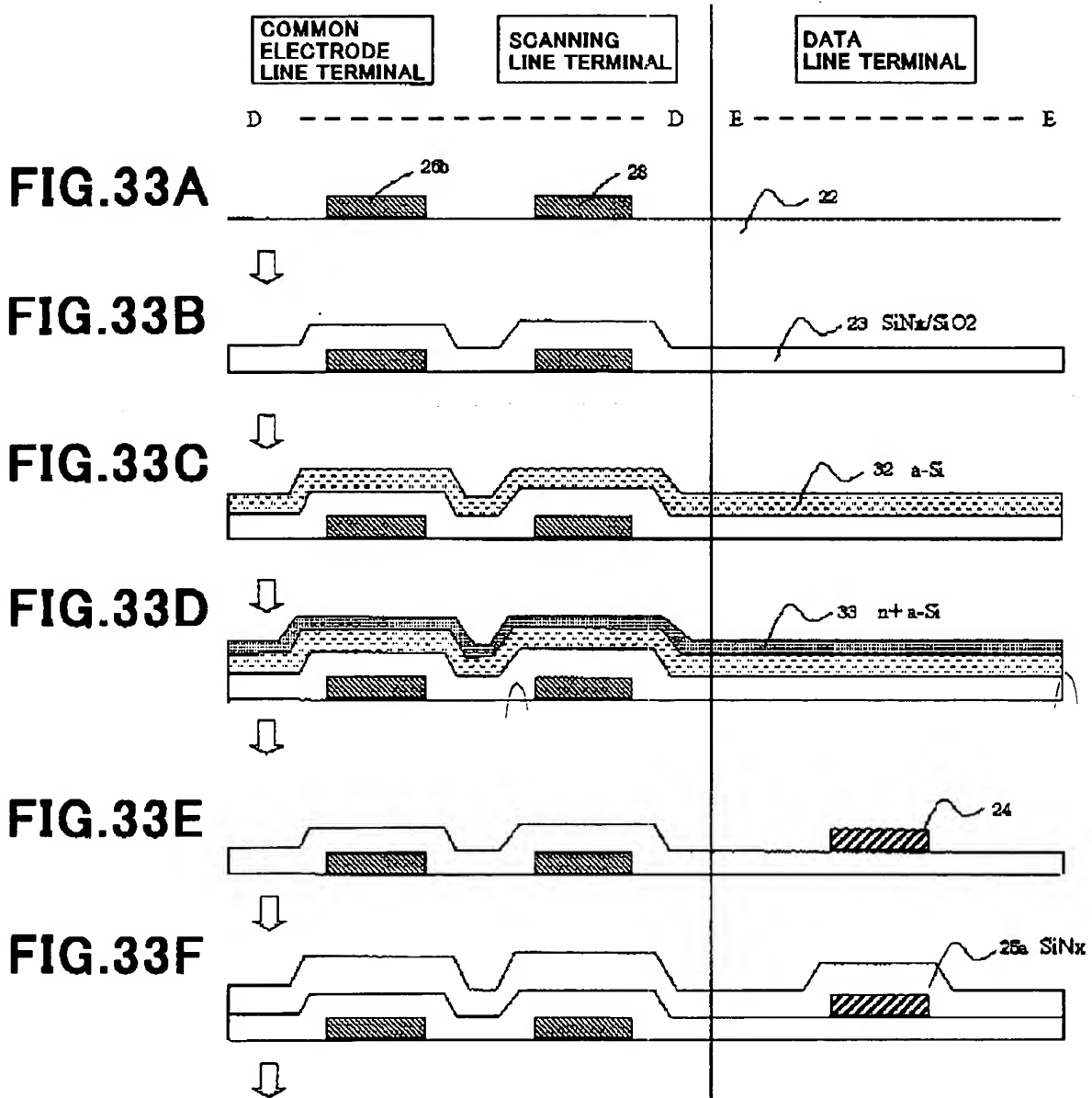


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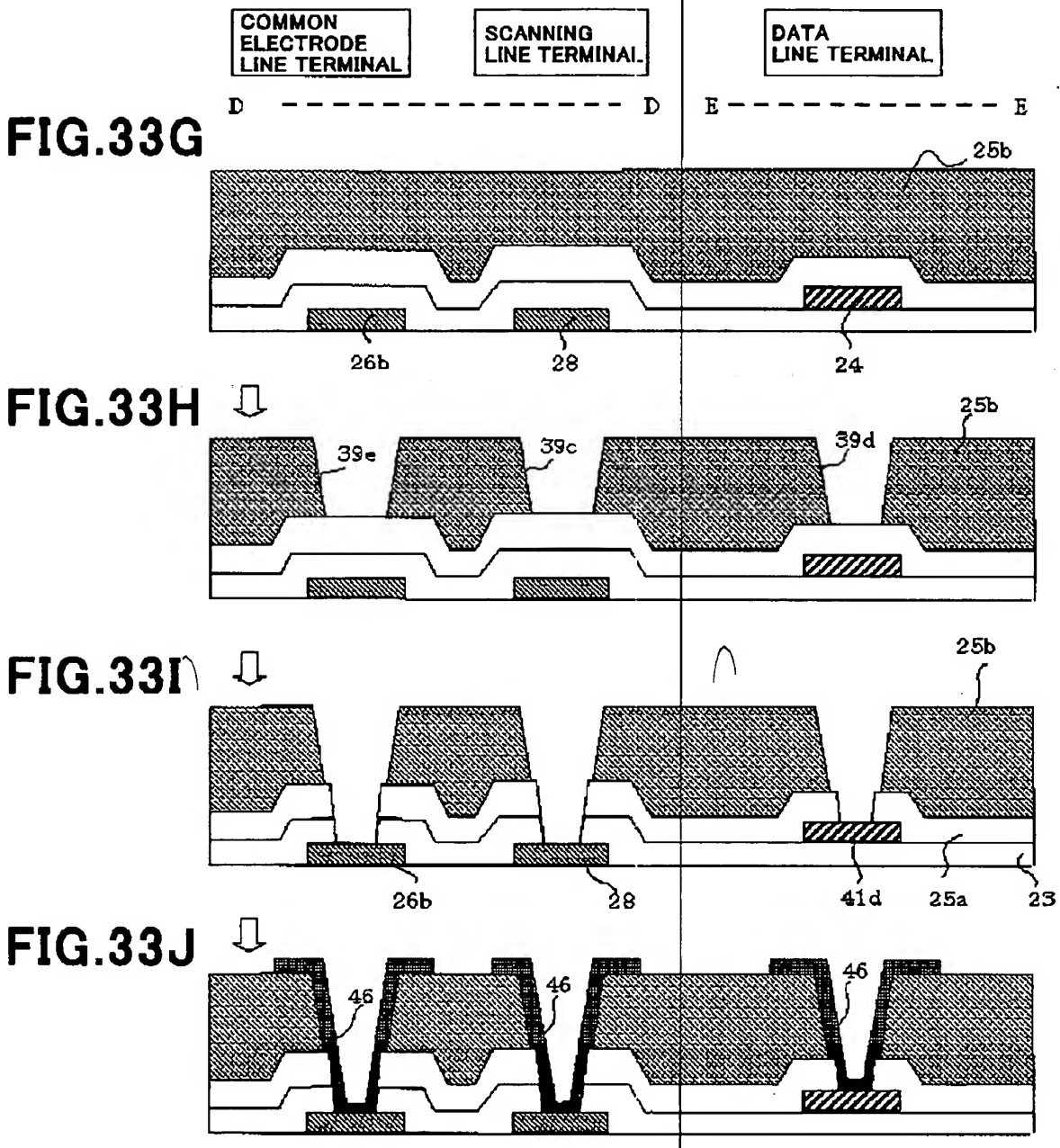
10081800.022202

FIG.32

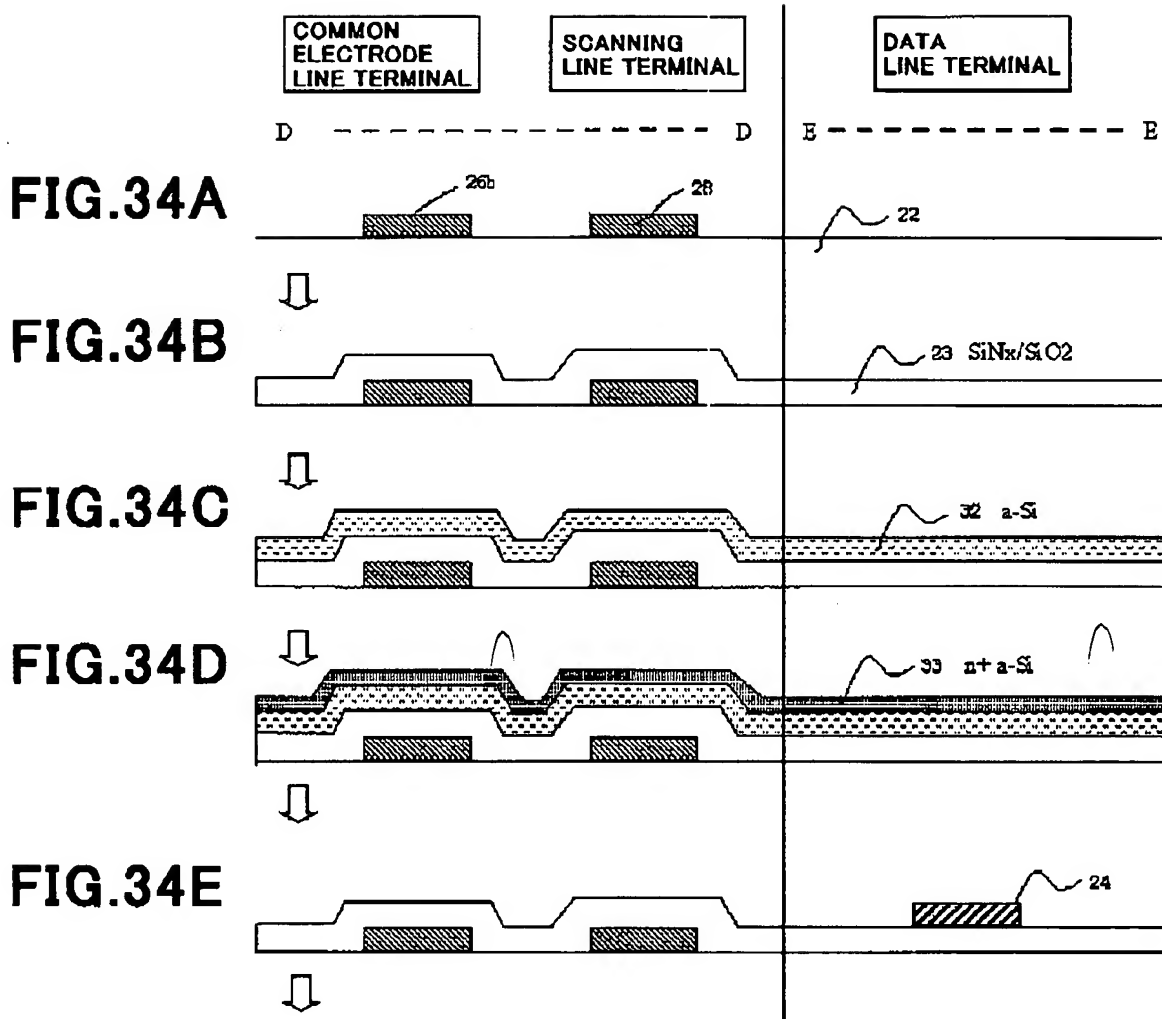




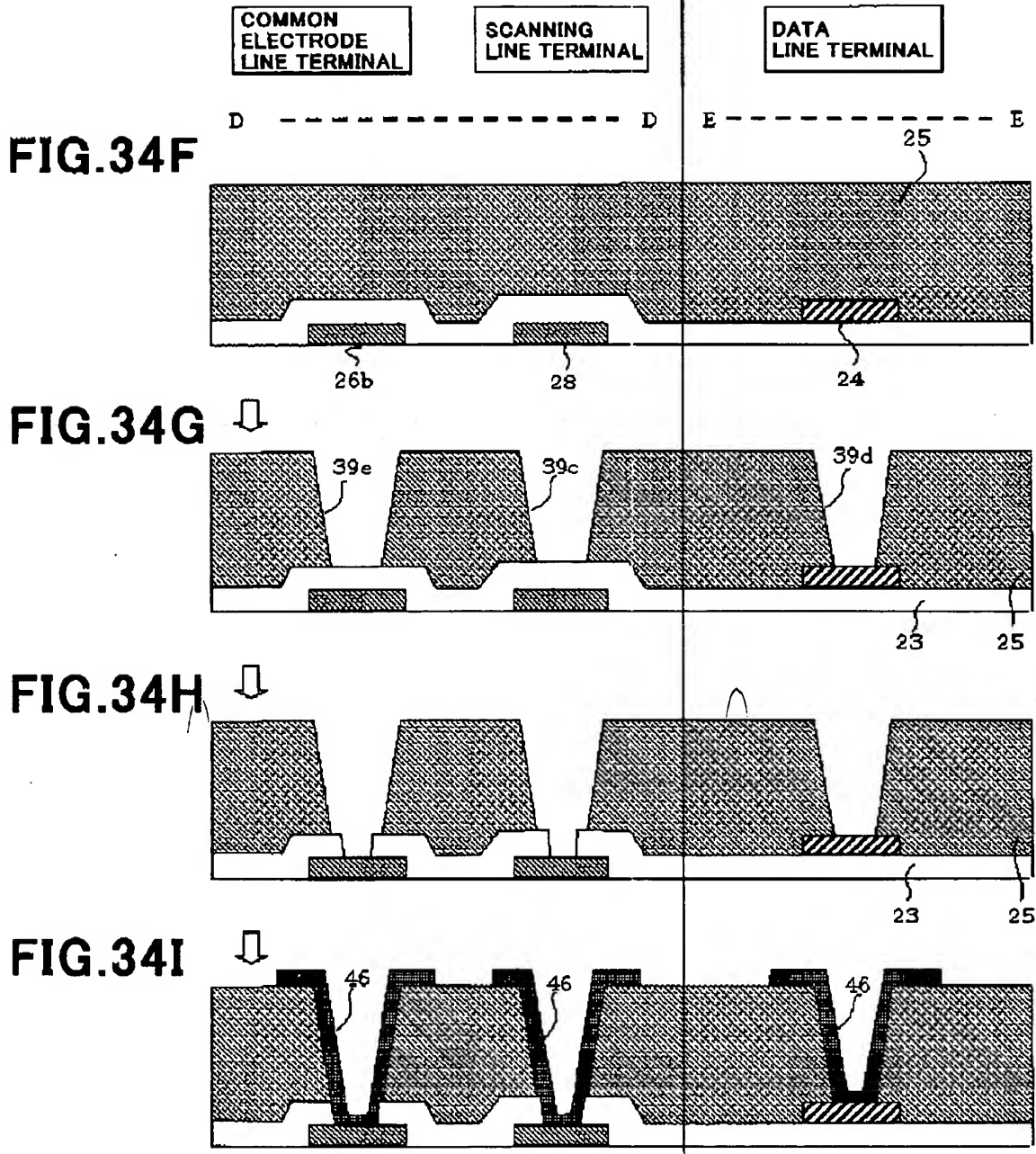
10081800, 022202

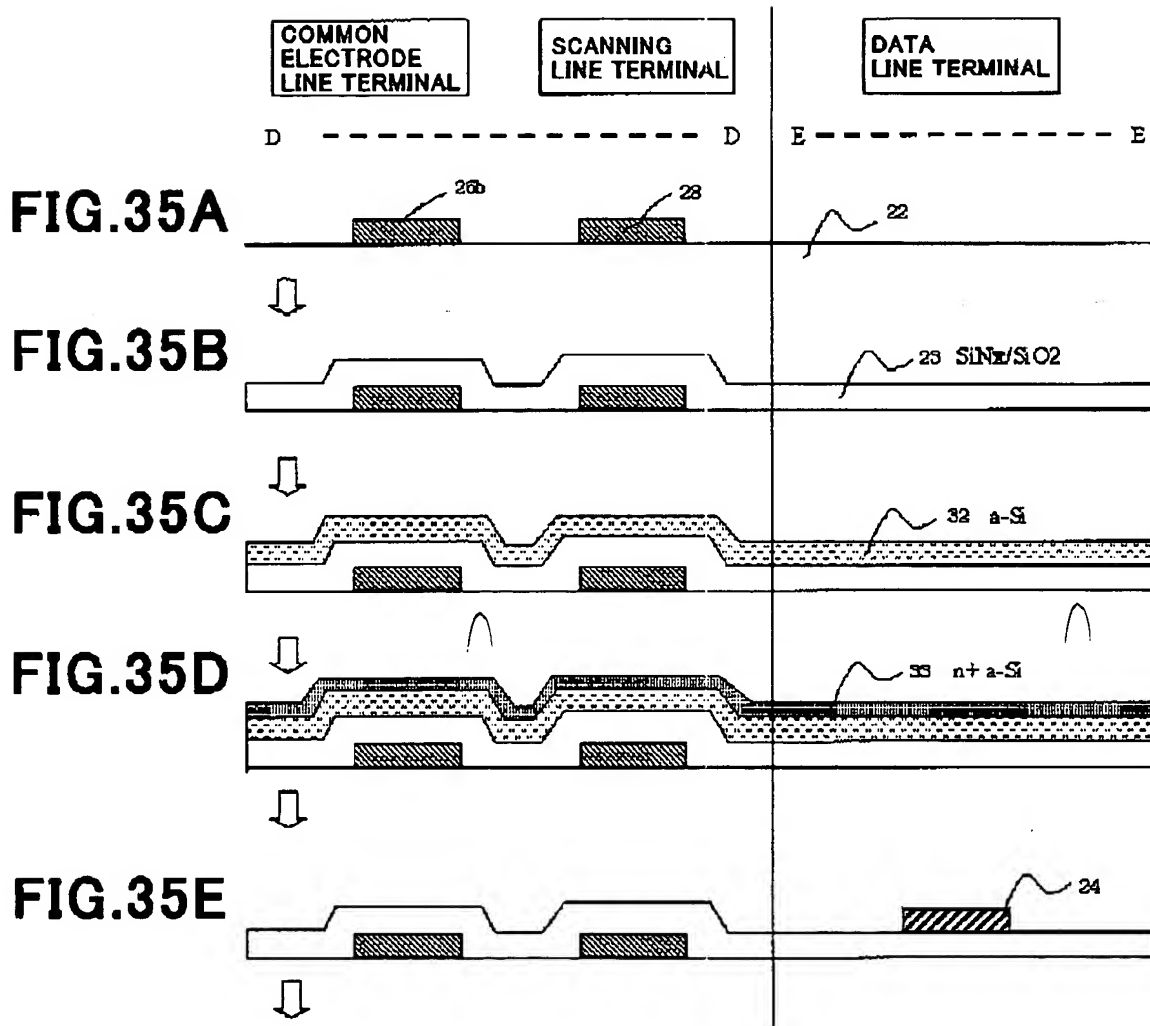


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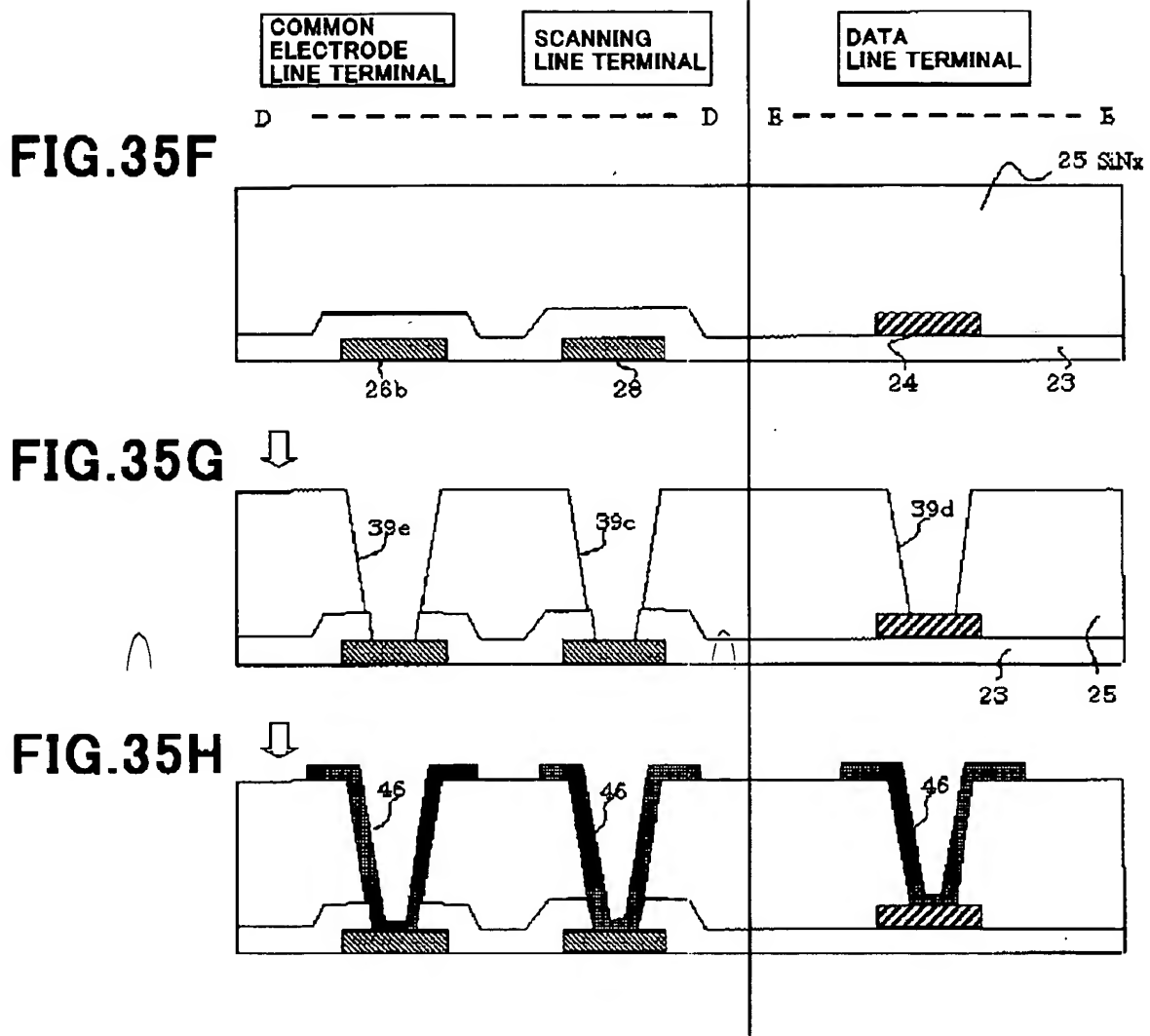
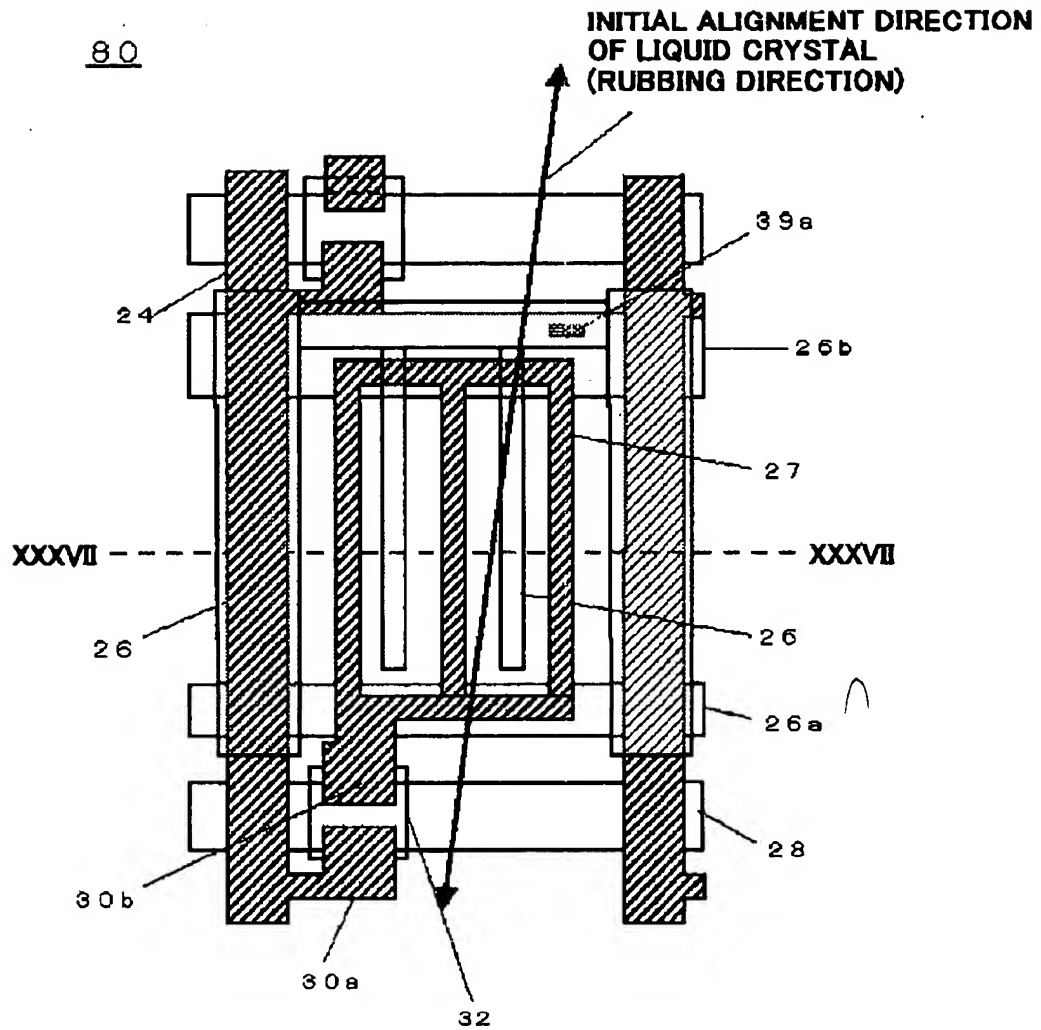
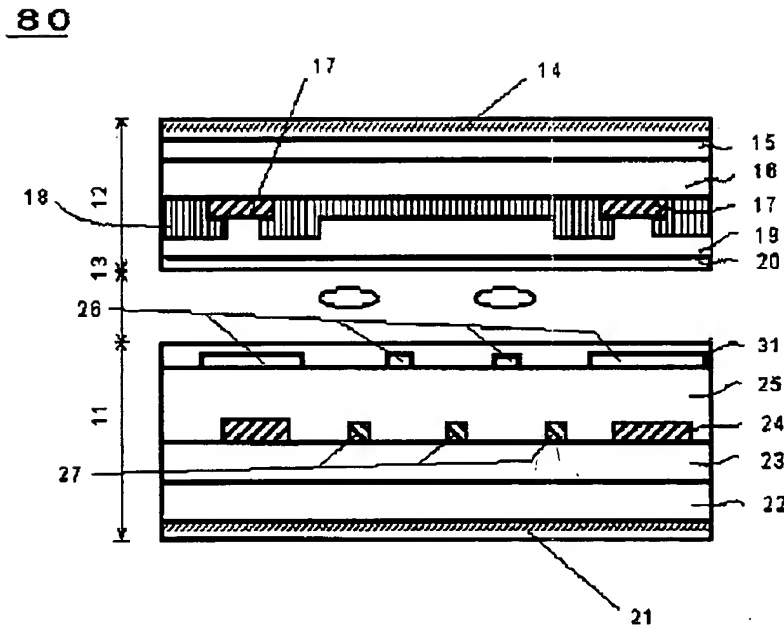


FIG.36



10081300, 022202

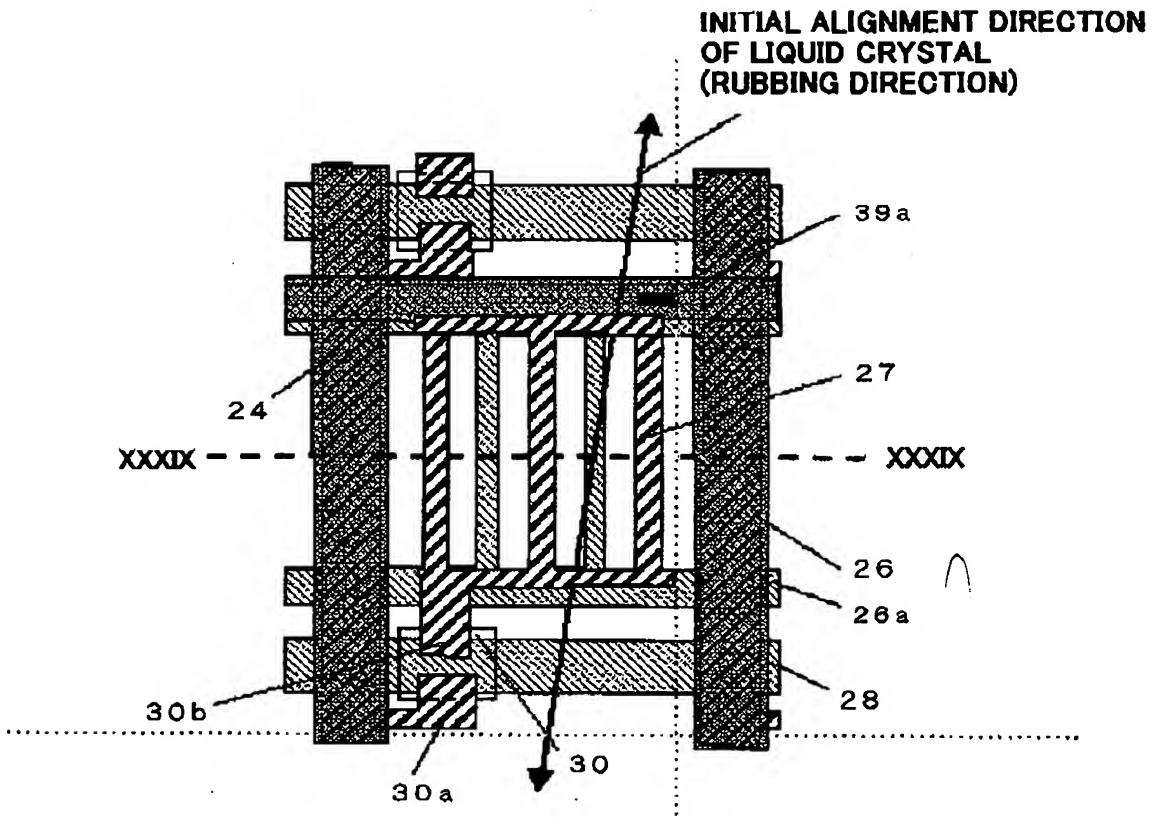
FIG.37



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FIG.38

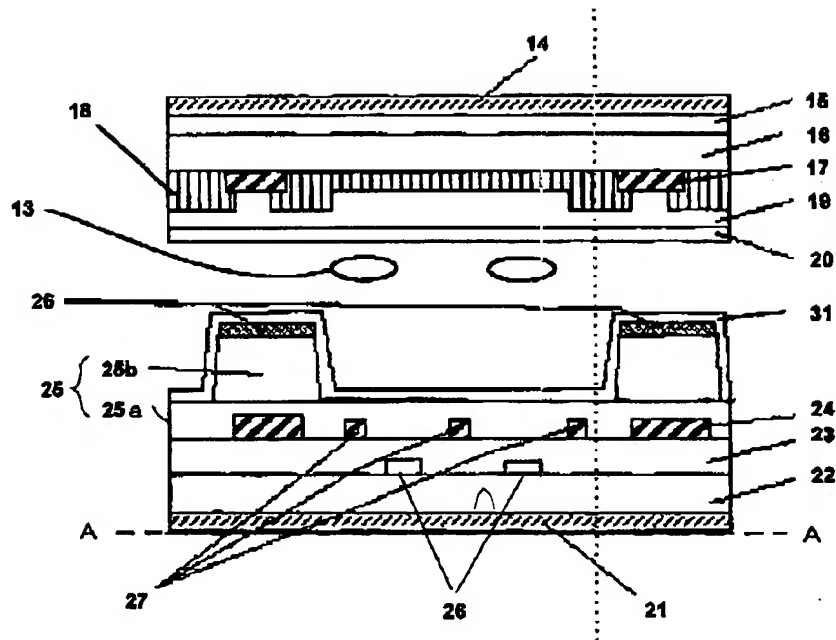
85



10081800.022202

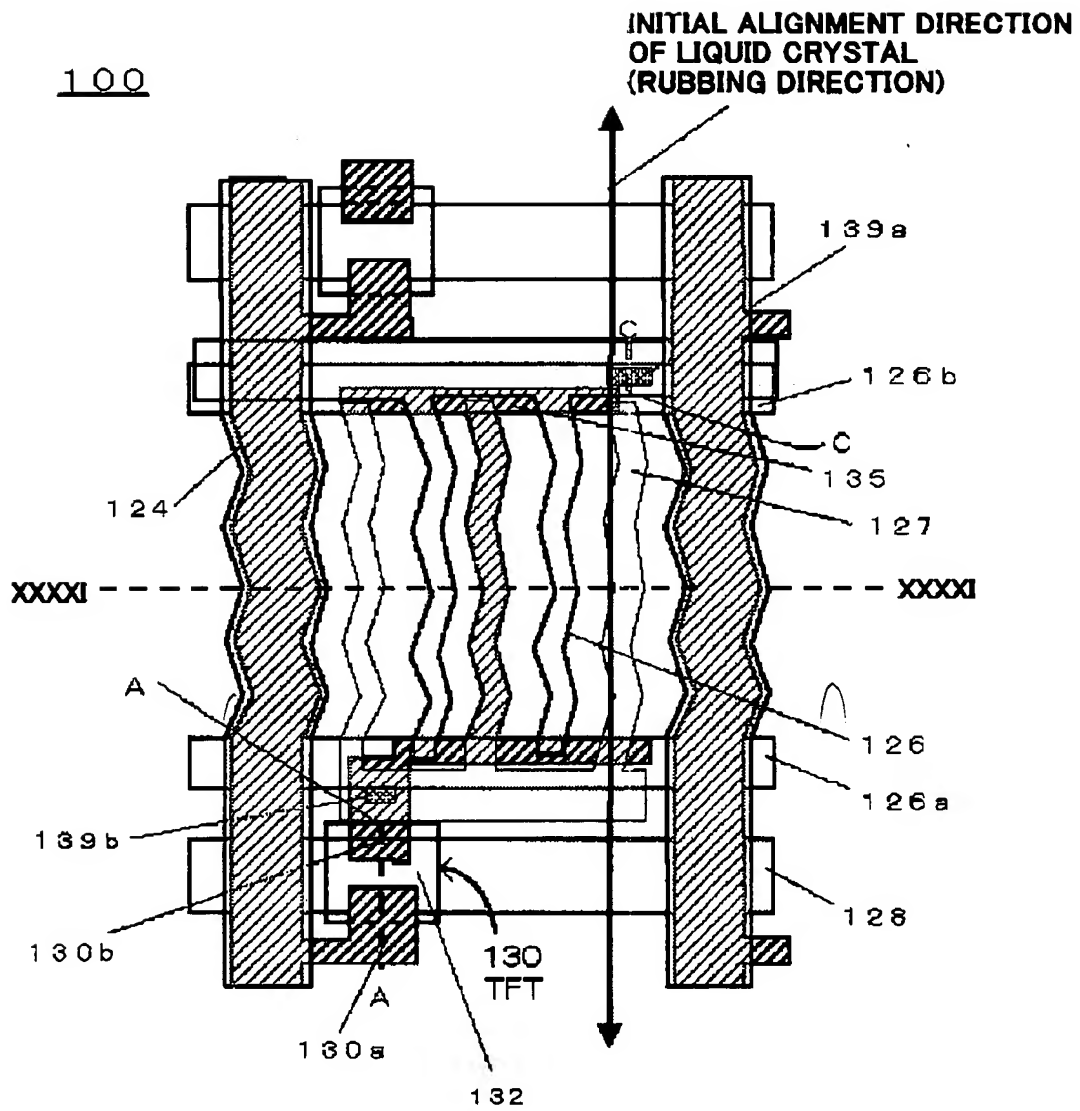
FIG.39

85



10081800, 022202

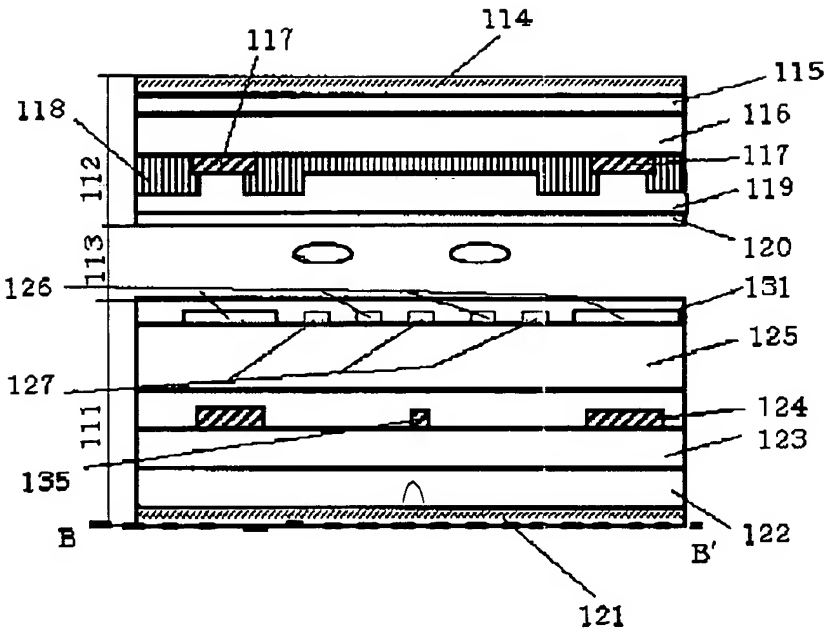
FIG.40



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FIG.41

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FIG.42A

FIG.42B

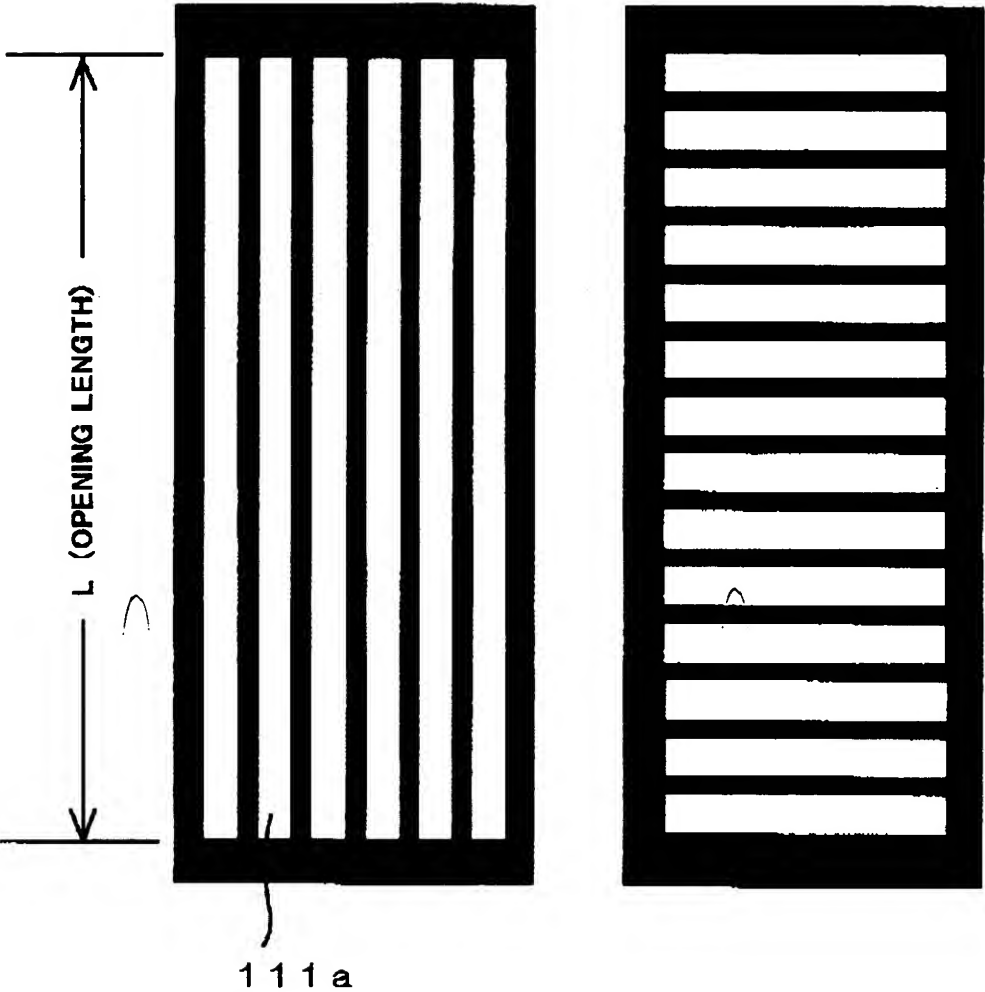
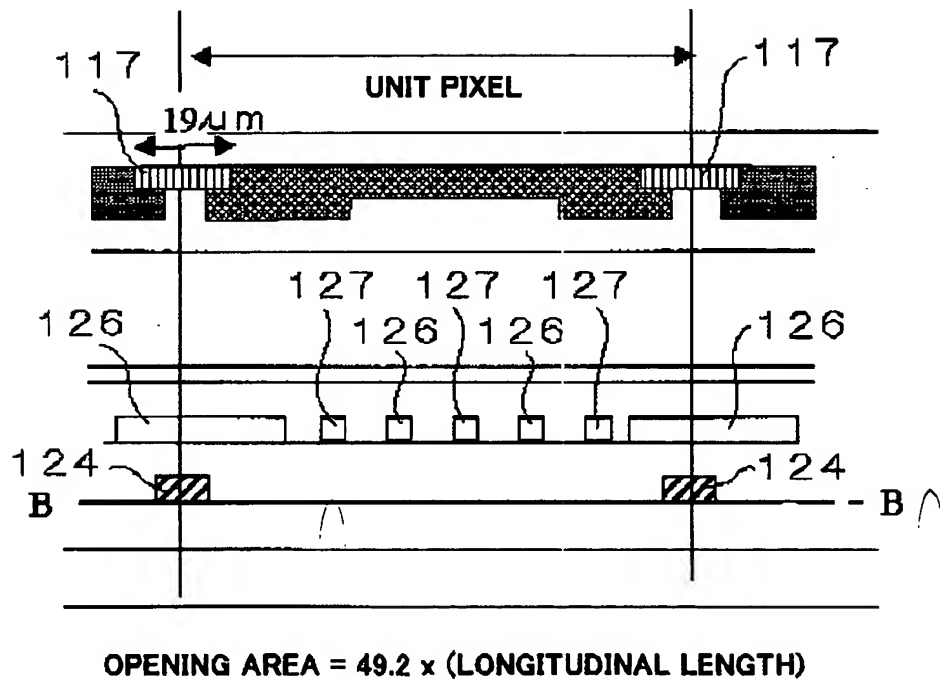


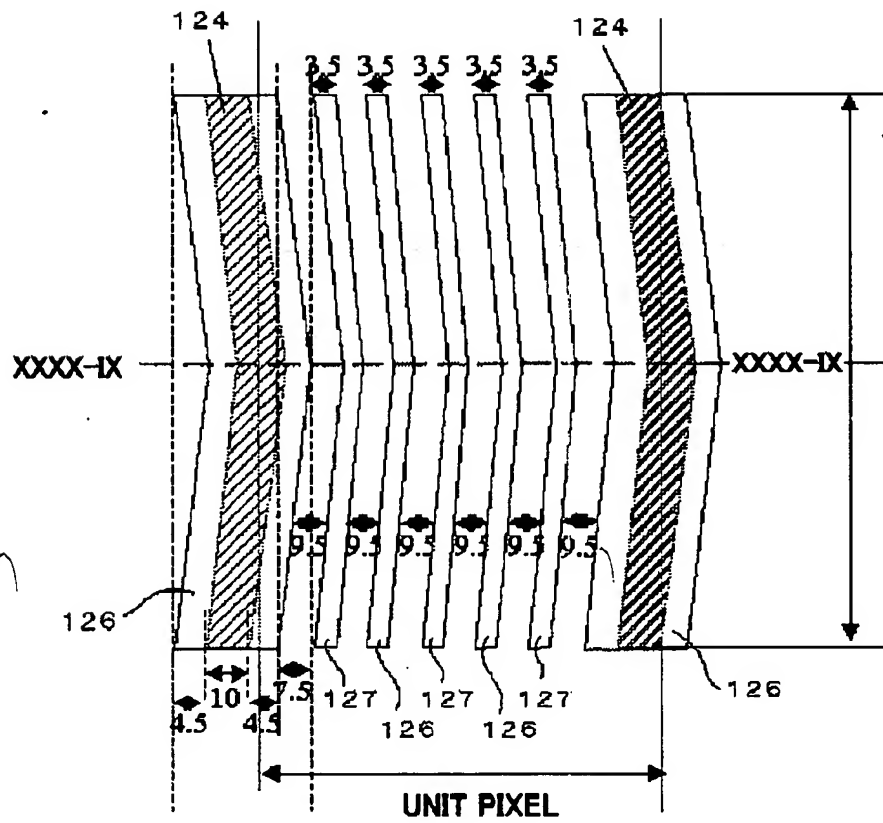
FIG.47

202



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203



202

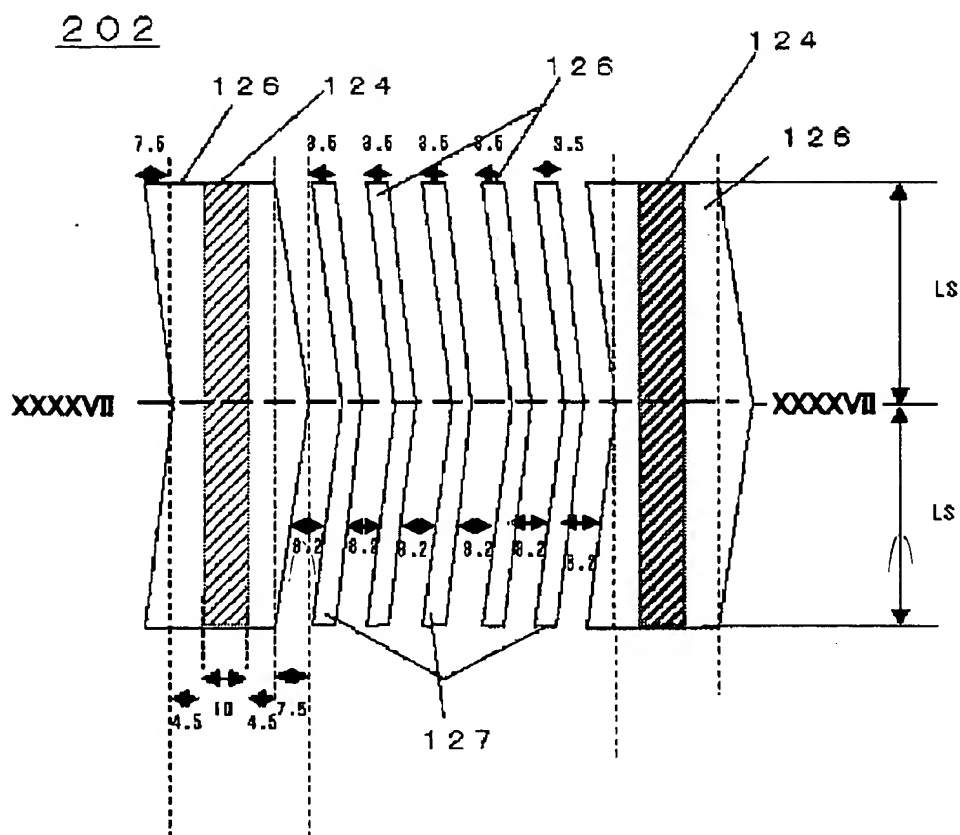


FIG.43A

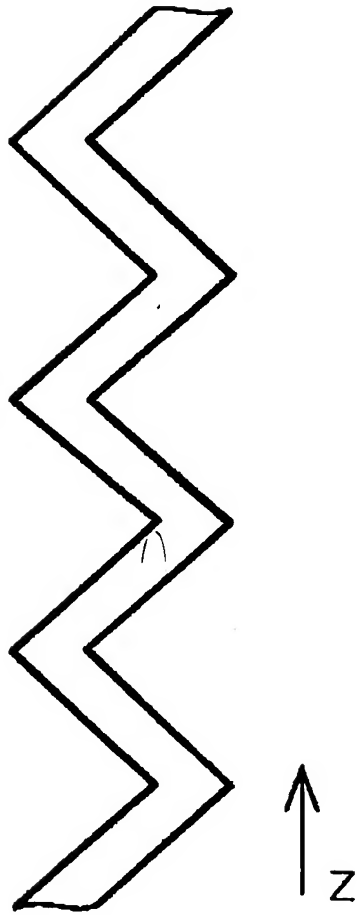
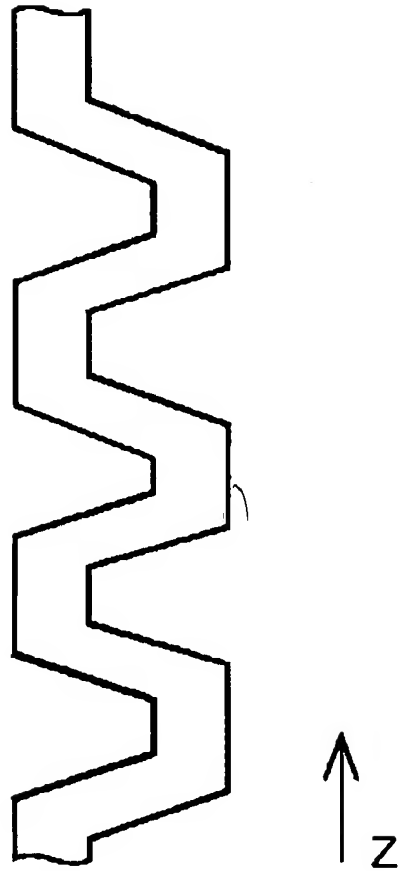


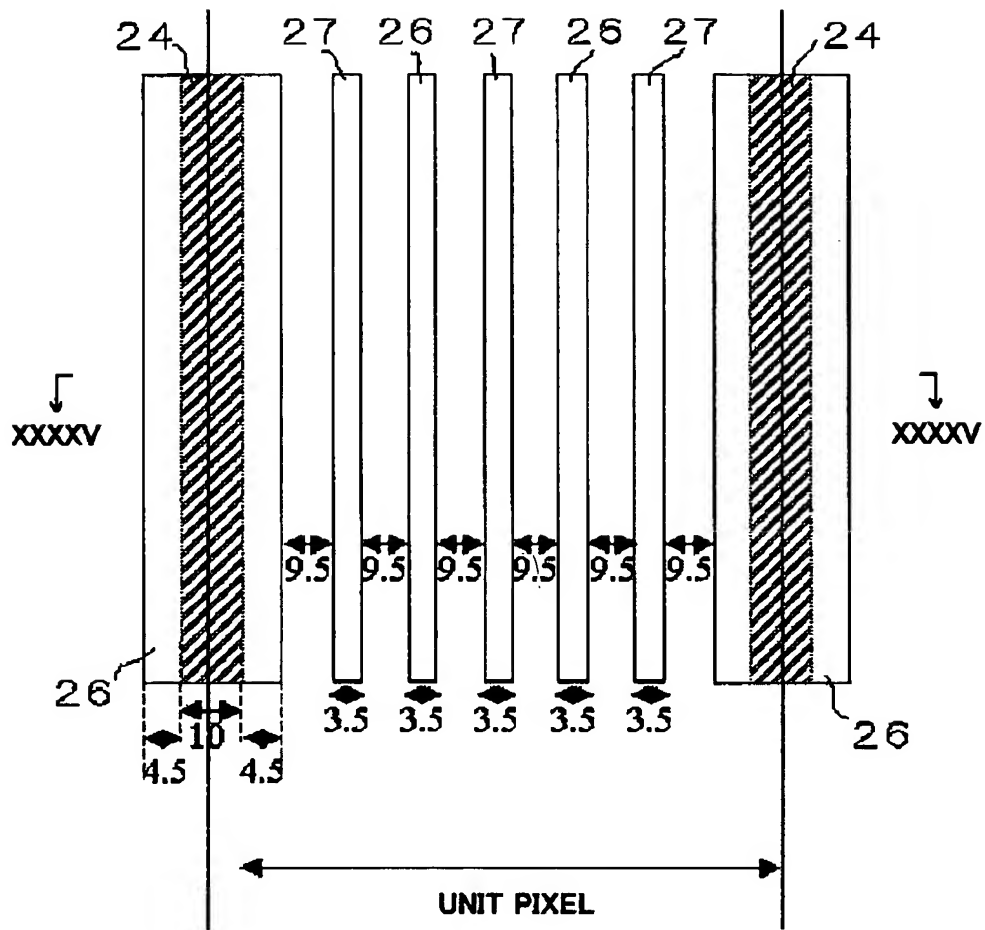
FIG.43B



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FIG.44

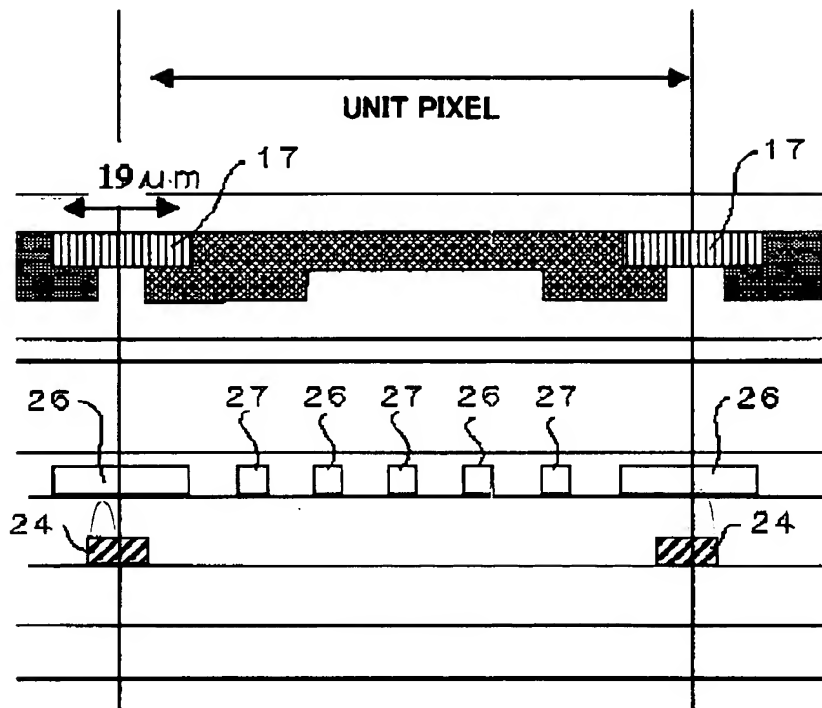
201



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FIG.45

201

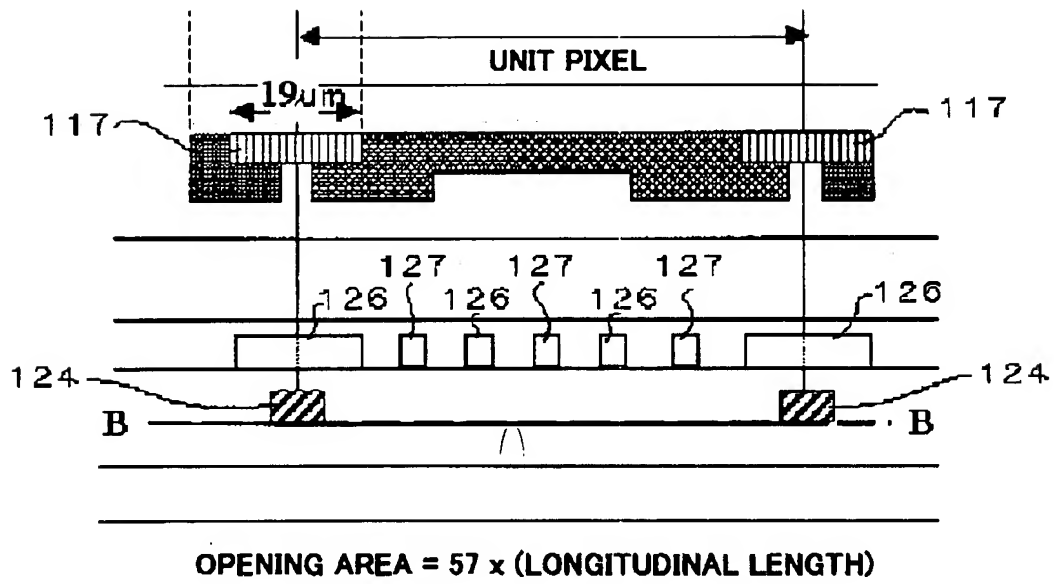


OPENING AREA = 57 x (LONGITUDINAL LENGTH)

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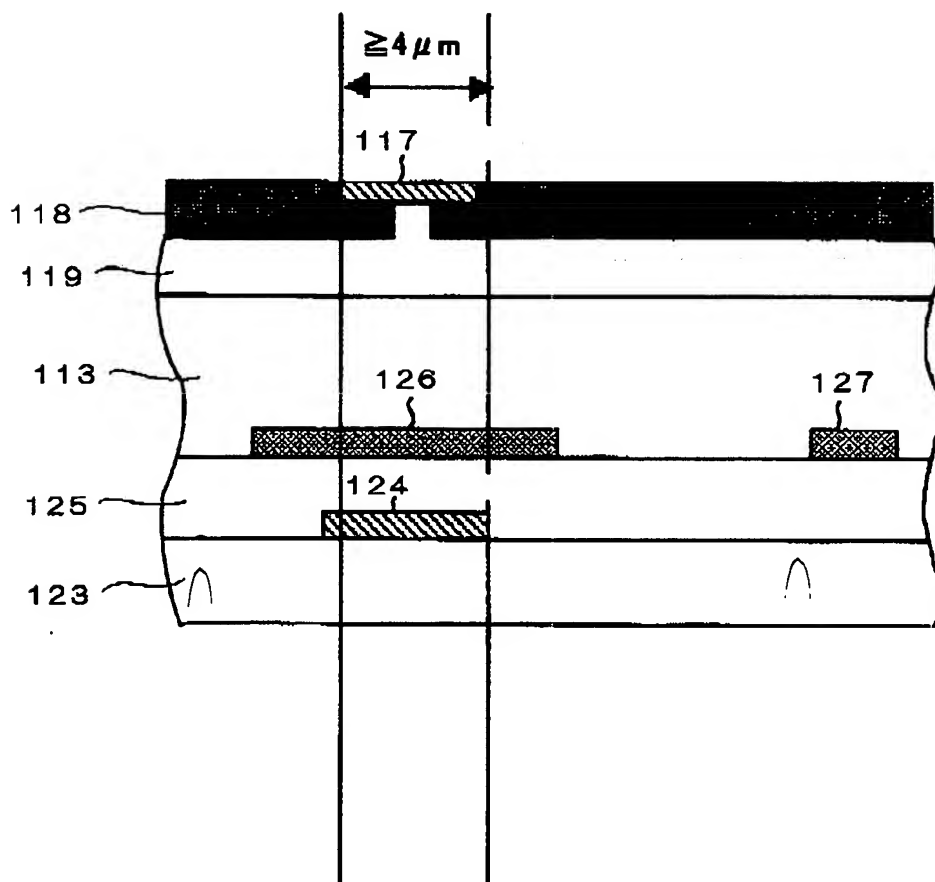
FIG.49

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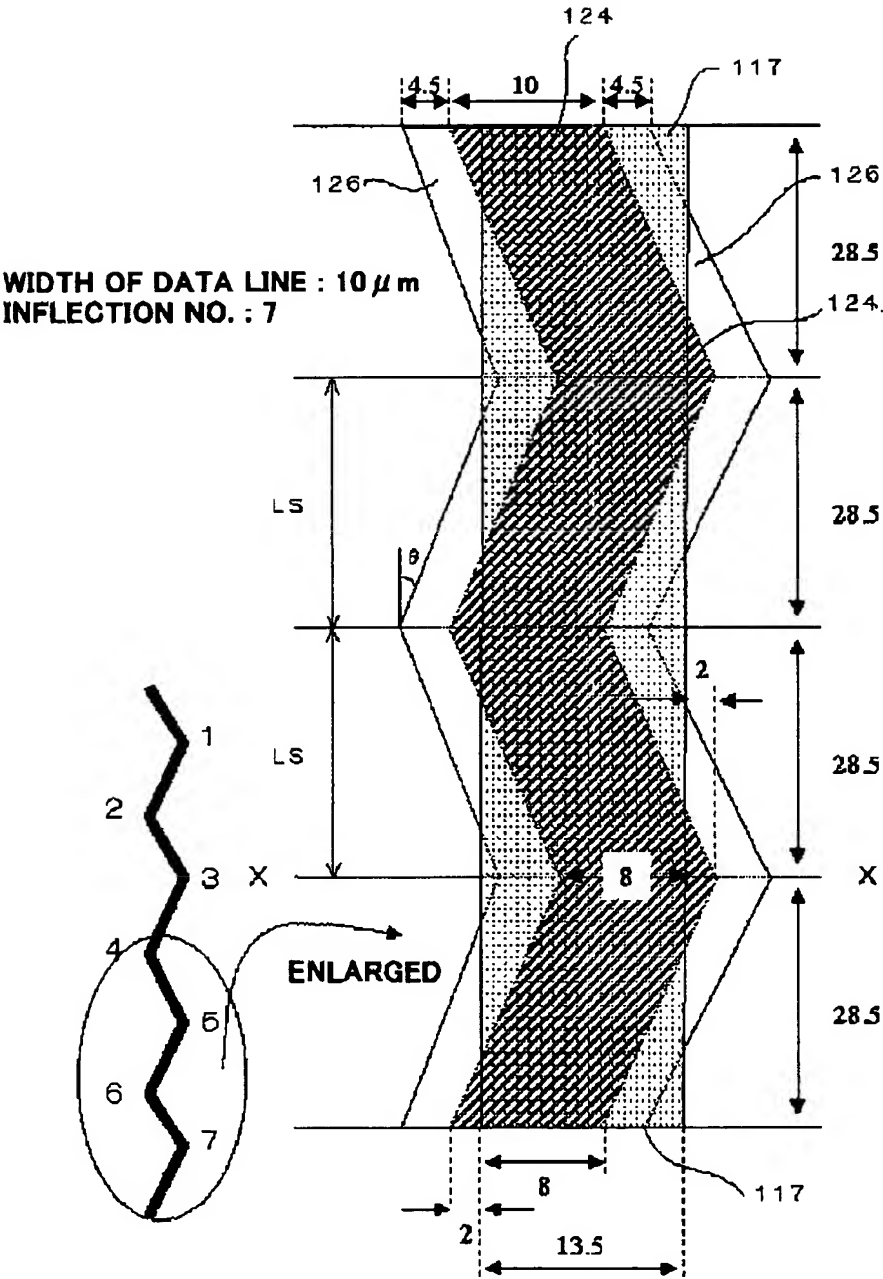
2002.02.21 02:22:02

FIG.50



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FIG.51



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WIDTH OF DATA LINE : $10\ \mu\text{m}$
INFLECTION NO. : 5

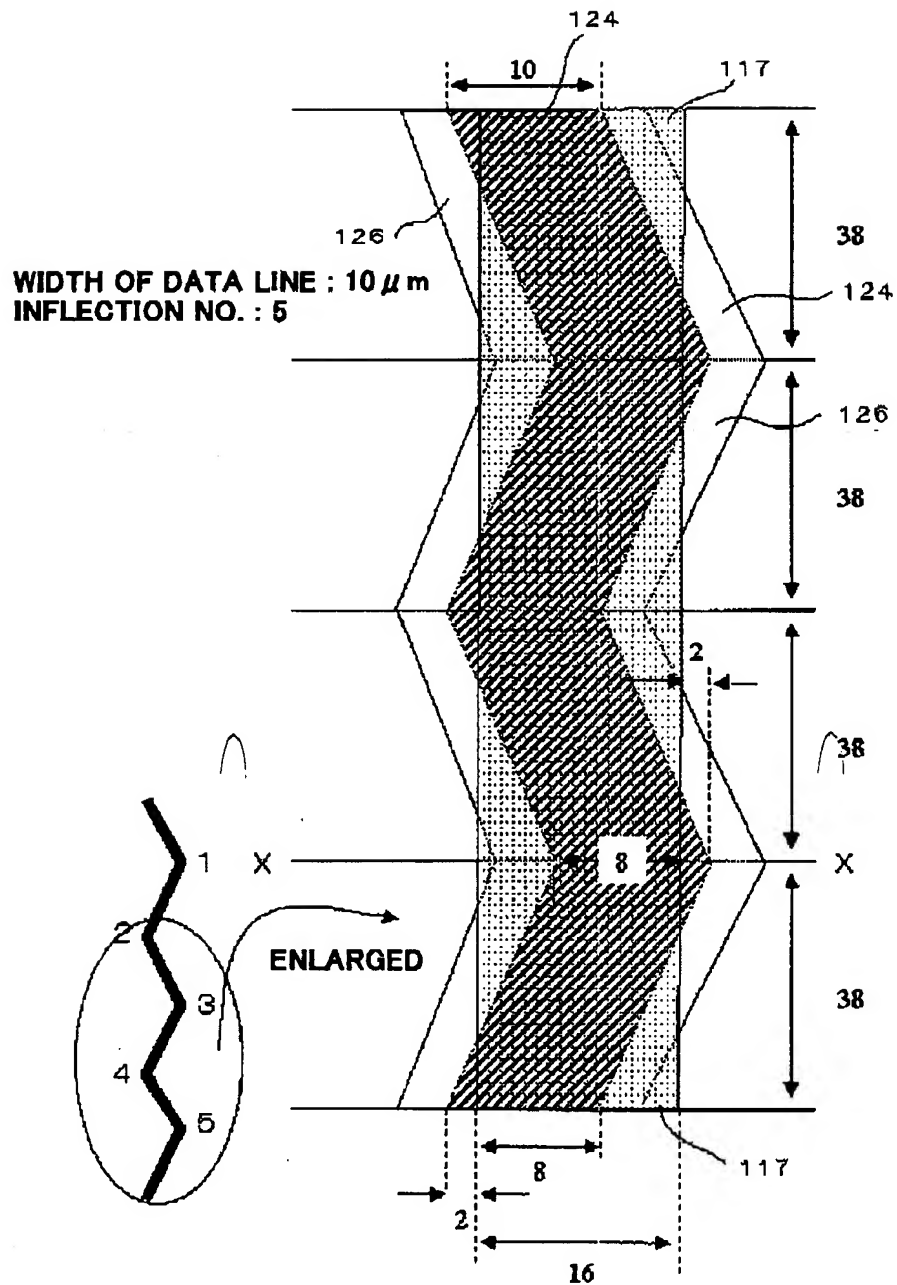
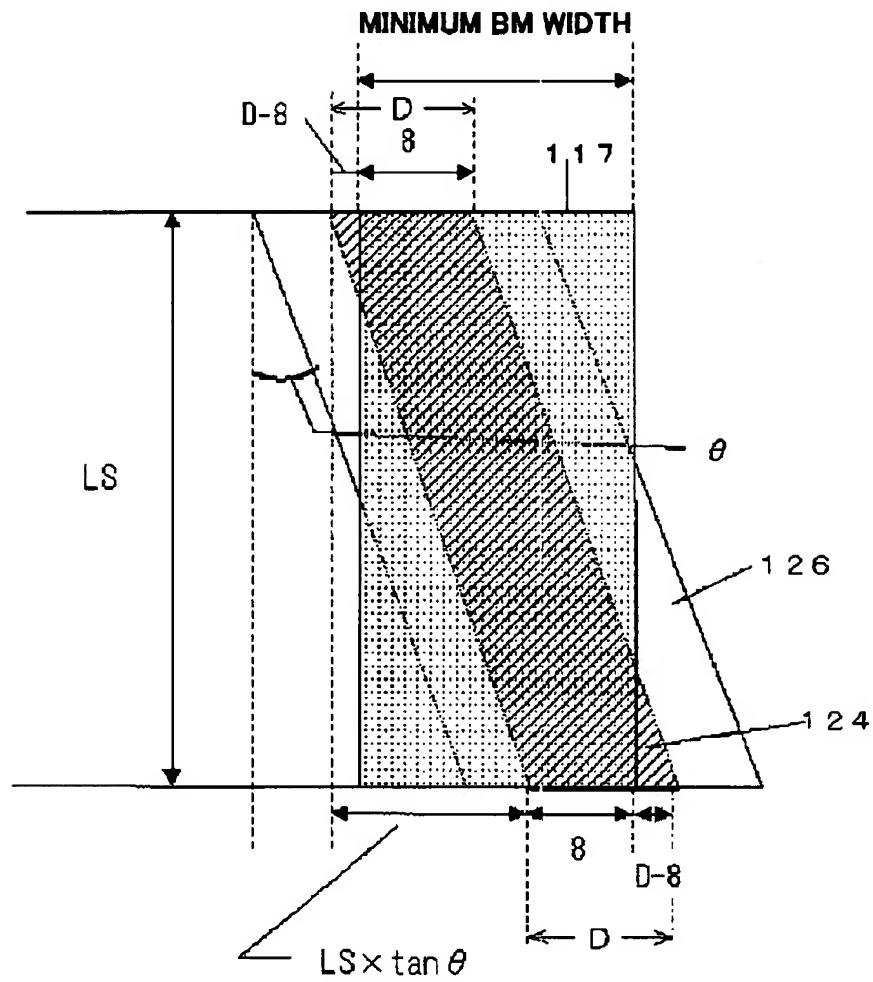


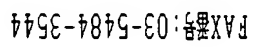
FIG.53

MINIMUM WIDTH OF BM
 $D_{min} = D + LS \times \tan \theta - (D-8) \times 2$



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WIDTH OF DATA LINE : $10\mu m$
INFLECTION NO. : 5

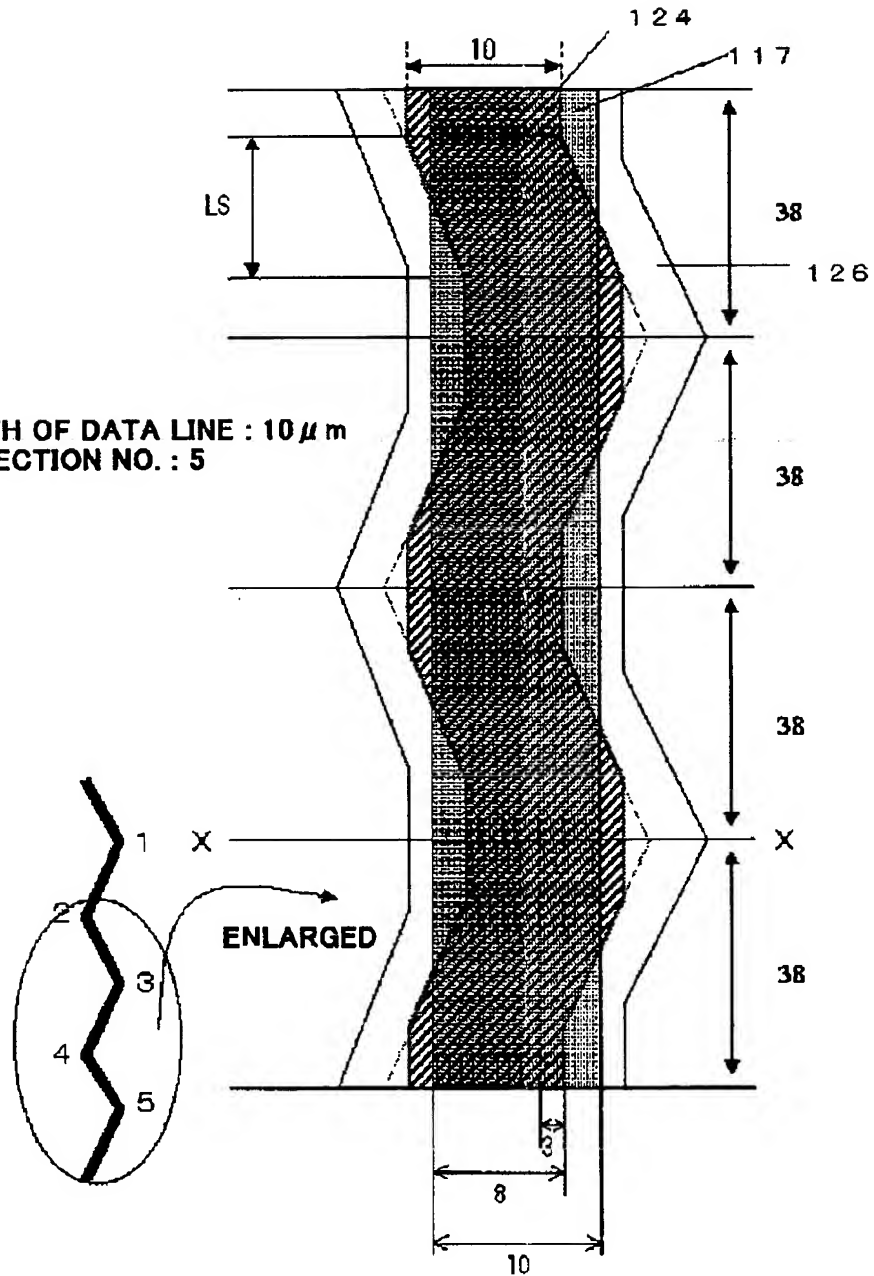
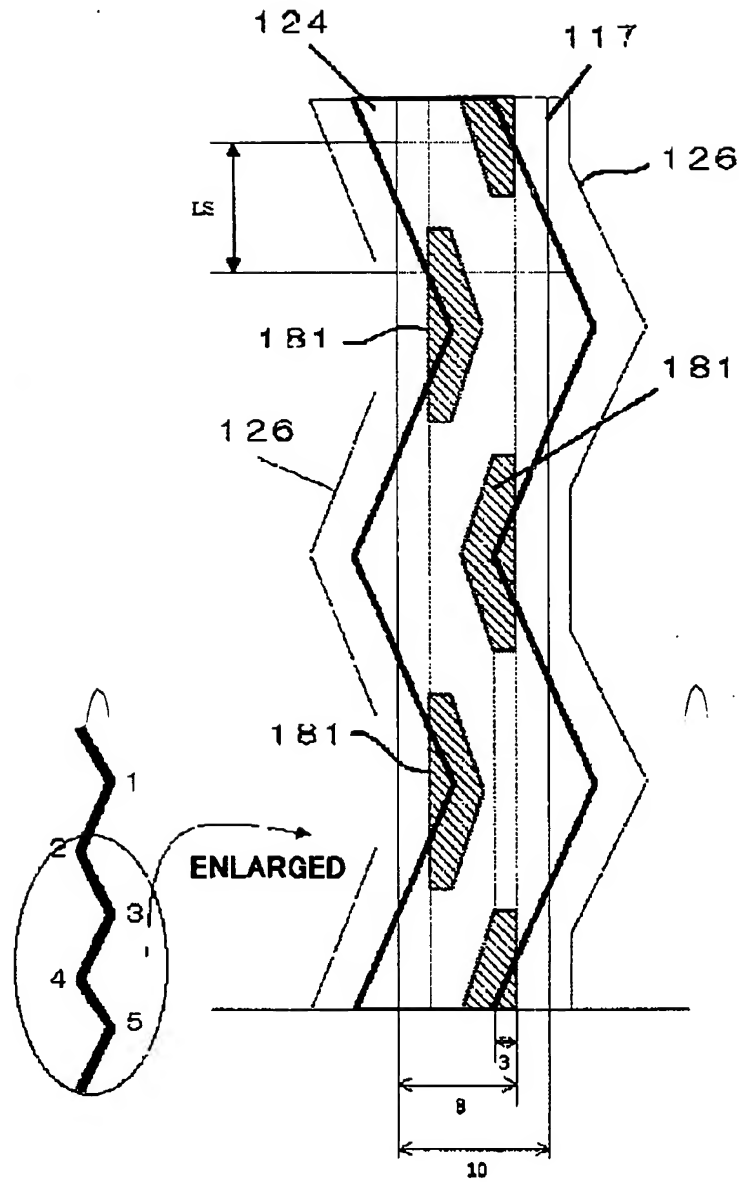
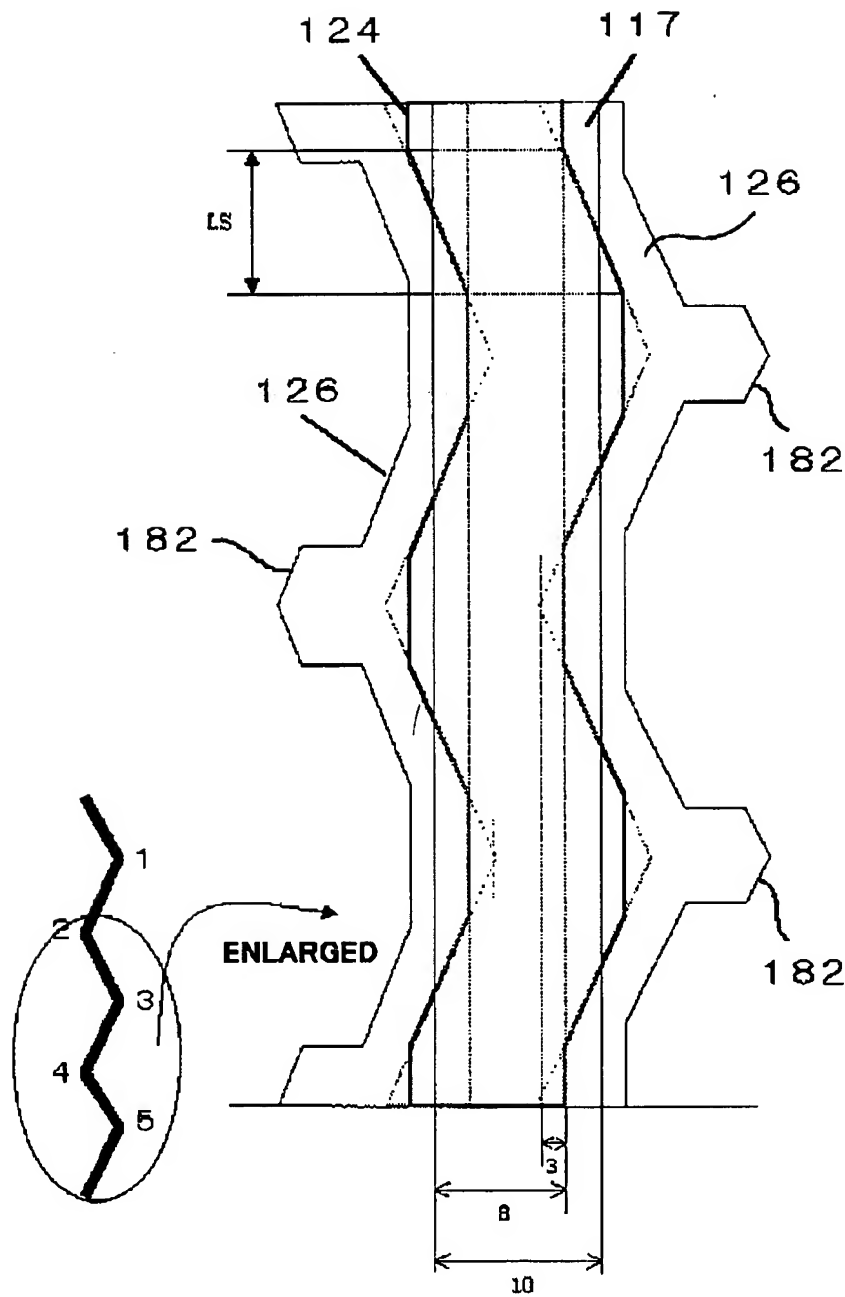


FIG.56



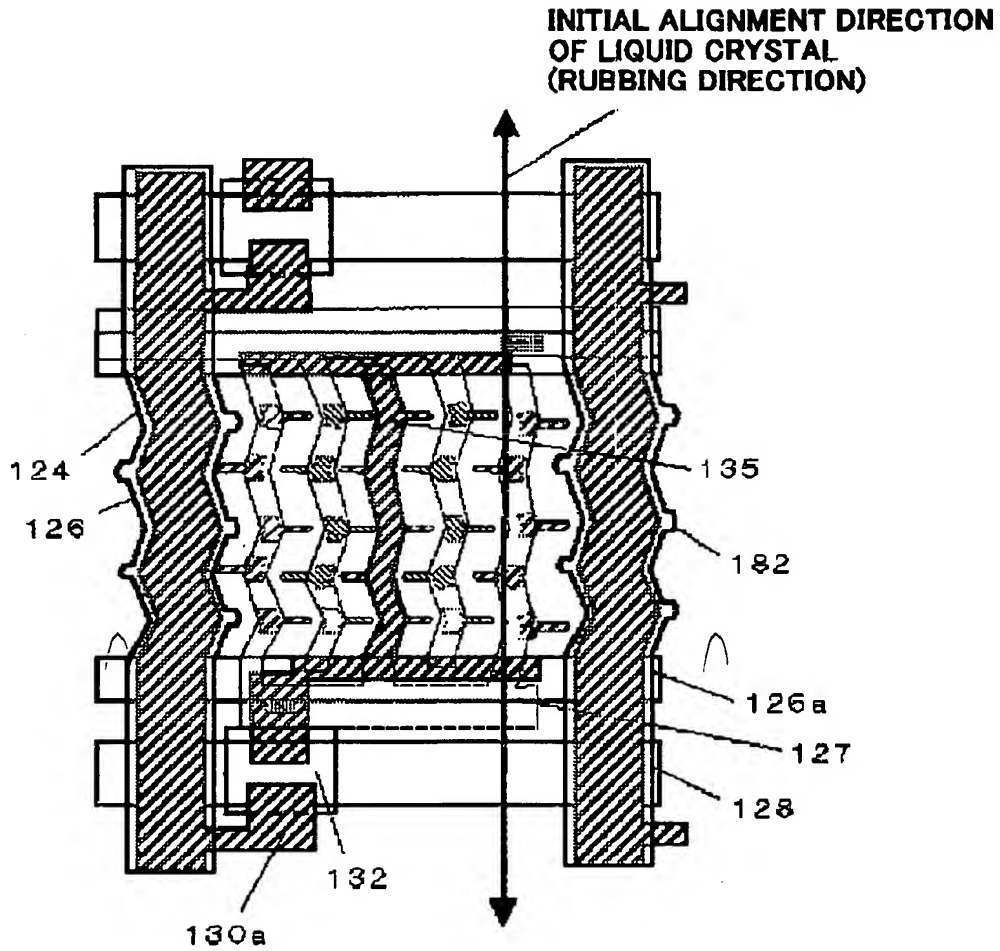
10081800, 022202

FIG.57



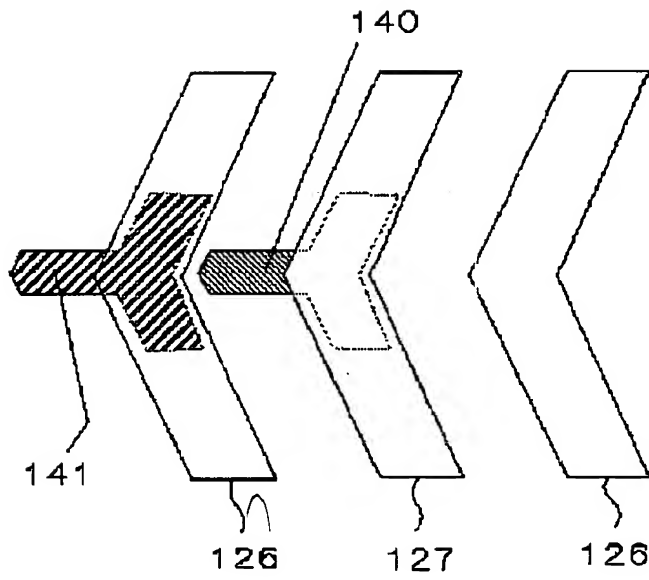
10081800.022202

FIG.58



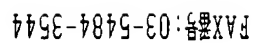
10081800.022202

FIG.59



10081800.022502

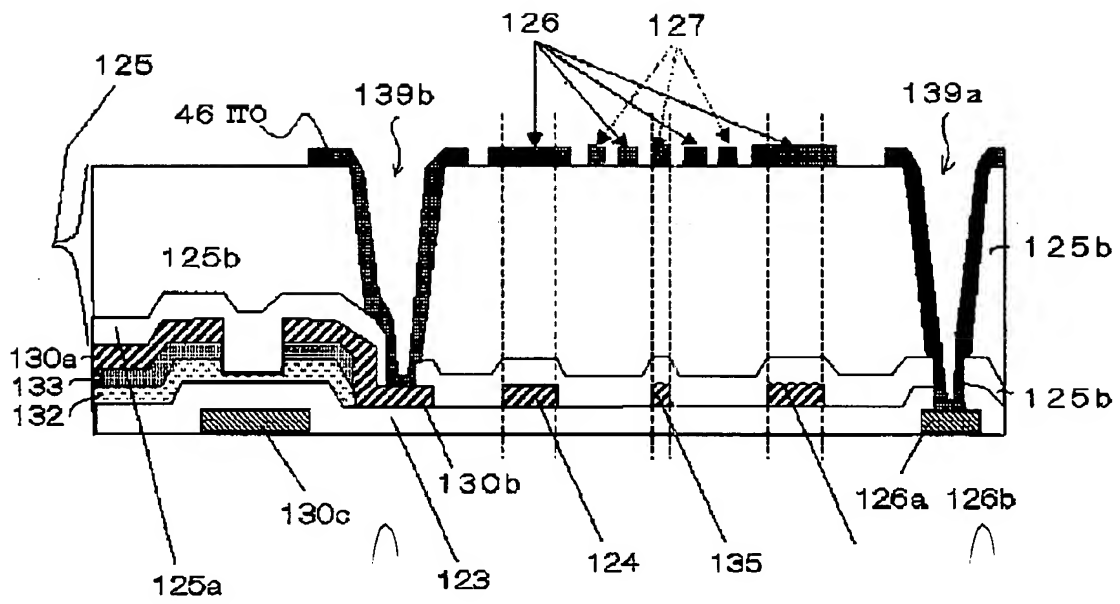
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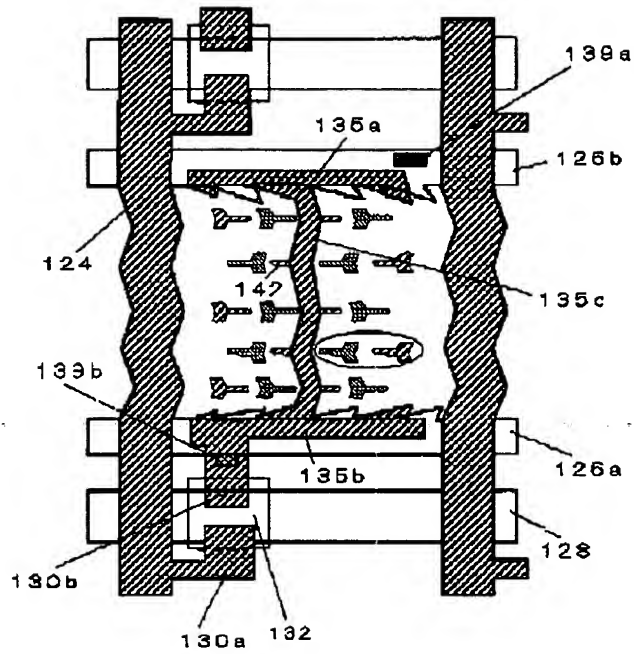
FIG.61



TFT REGION	PIXEL REGION	CONTACT HOLE REGION
(A-A)	(B-B)	(C-C)

FIG.62A

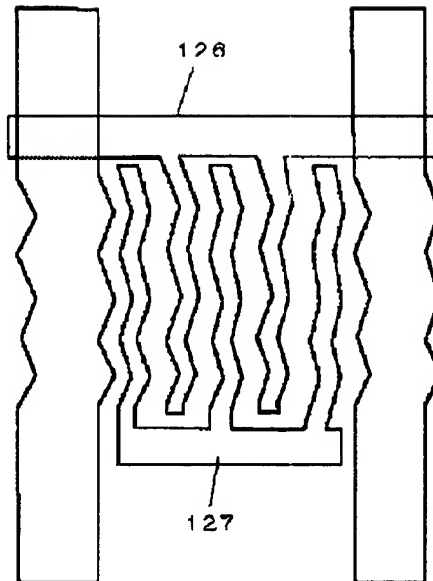
LAYERS OTHER
THAN ITO LAYER



OVERLAPPED

FIG.62B

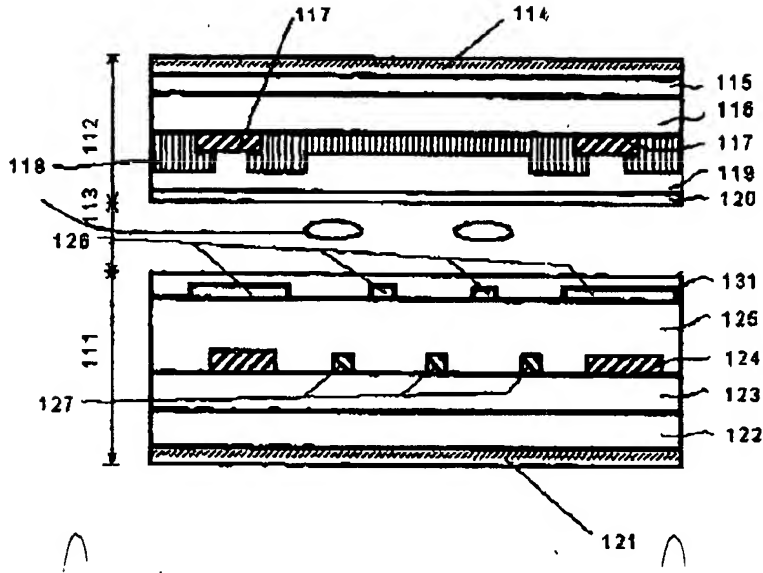
ITO LAYER



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FIG.63A

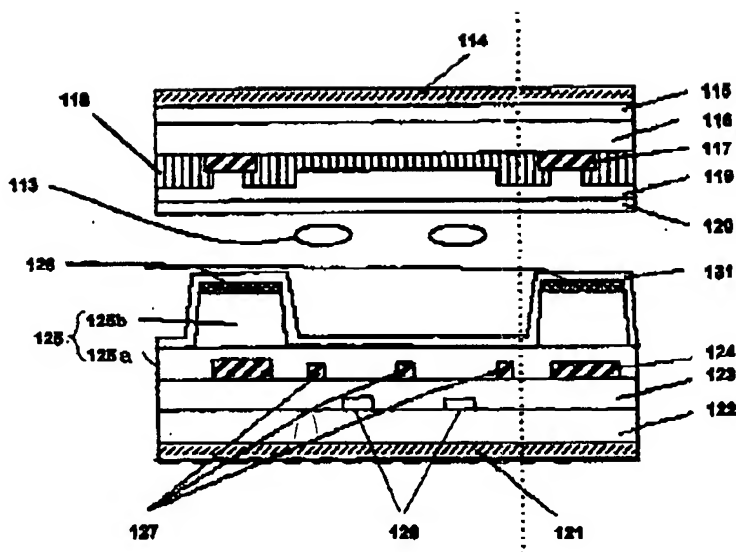
180



10081800.022202

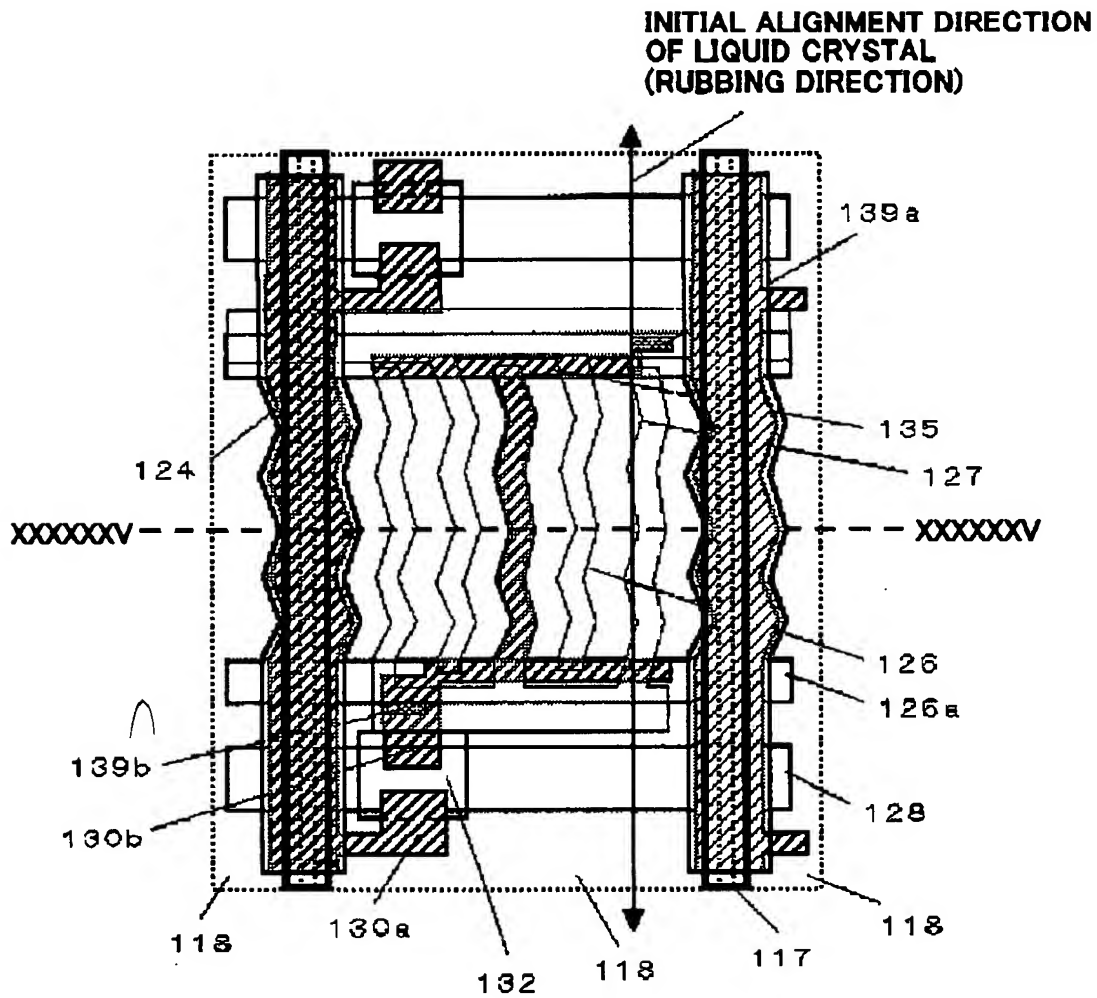
FIG.63B

185



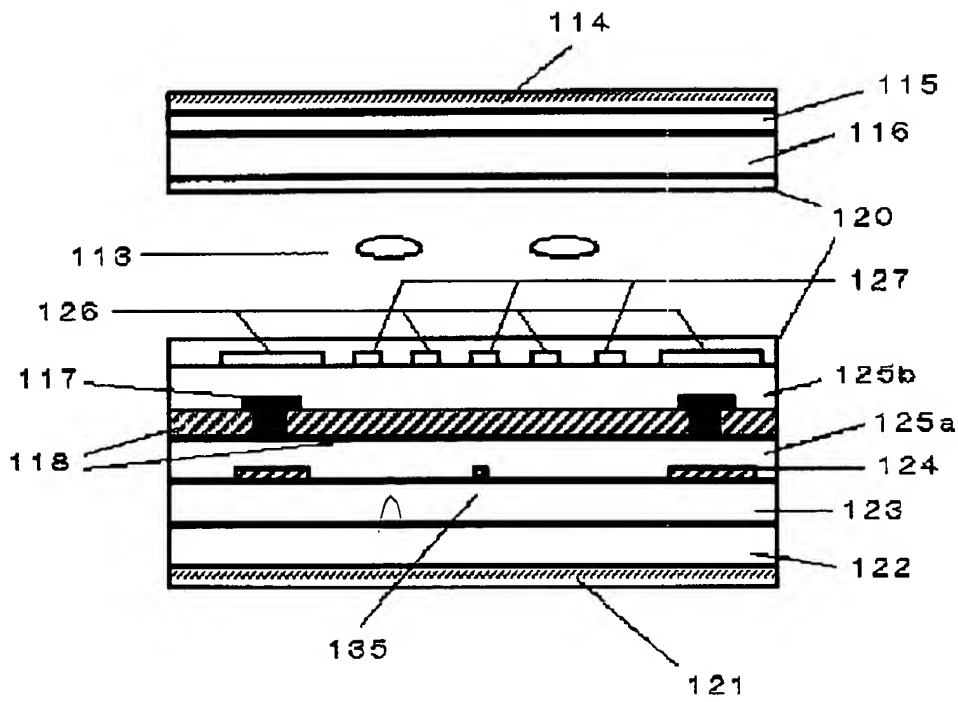
10081800.022202

FIG.64



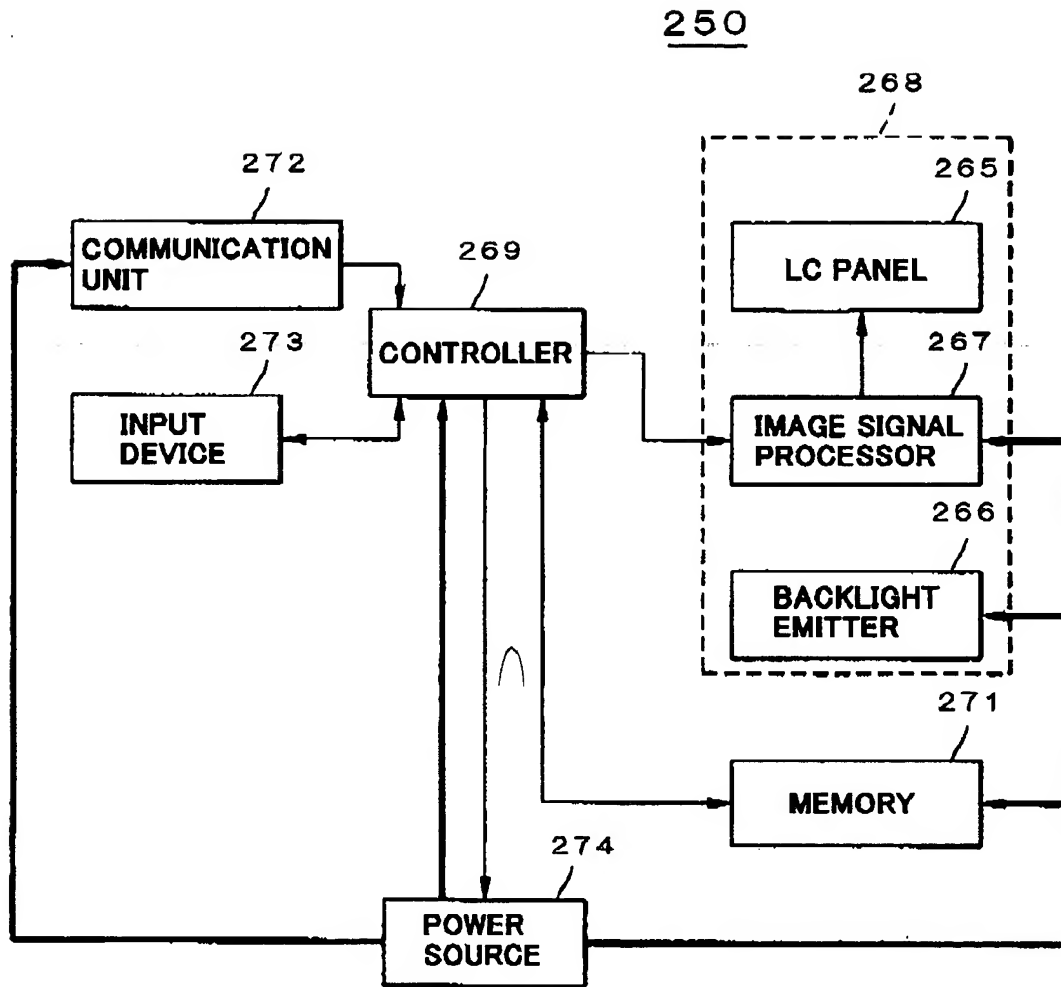
10081800.022202

FIG.65



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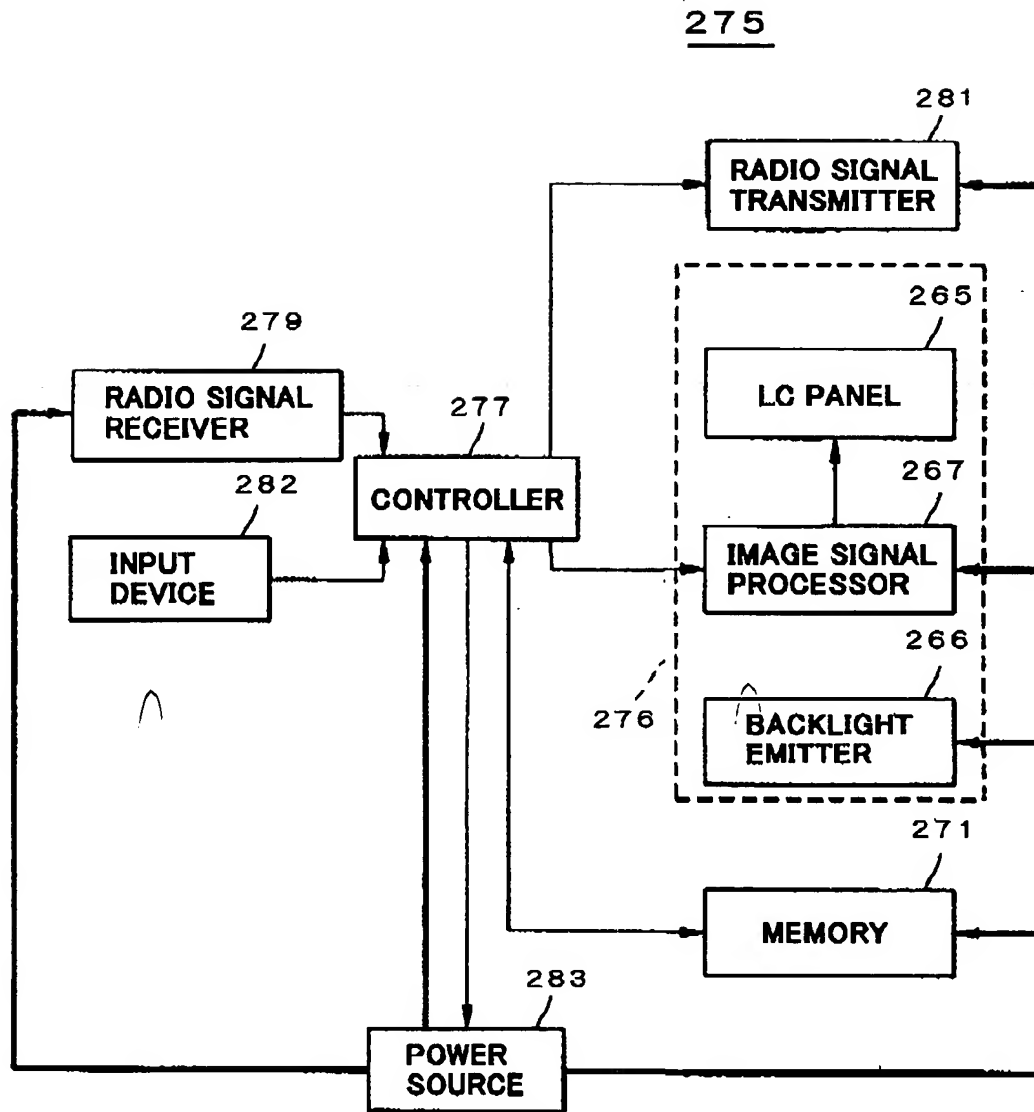
FIG.66



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FIG.67



2002.02.21 00:00:00